H-3

MONITORING WELL PURGE DATA SHEETS – ROUND 3, MARCH 2002

162'

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ____ OF ____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 23 April 02

MONITORING WELL ID: HESE-01-05D | ACTIVITY TIME: START 1040 END 1140 | BOTTLE TIME: 1135

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

INITIAL DTW: ~~5.95~~ 5.05 ft (TOR) | FINAL DTW: 5.06 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0016 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.34

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.000684

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.4 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1045	5.00	150	21.77	35.7	6.8	0.85	149	-79	2.3	22	(91L) VERY TURBID FROM MANY
1050	5.00	150	21.77	36.0	6.8	0.45	13.8	-78	2.3	22	ATTEMPTS AT TUBING
1055	5.00	150	21.75	36.1	6.8	0.22	9.1	-76	2.3	22	TUBING. (TIDAL
1100	5.00	150	21.74	36.1	6.8	0.12	5.8	-76	2.3	22	INFLUENCE ON DTW)
1105	5.01	150	21.73	36.1	6.8	0.03	5.2	-76	2.3	22	
1110	5.01	150	21.72	36.0	6.8	0.00	5.2	-77	2.3	22	
1115	5.01	150	21.70	35.8	6.8	0.00	2.8	-77	2.3	22	
1120	5.01	150	21.69	35.8	6.8	0.00	2.6	-78	2.3	22	
1125	5.02	150	21.69	35.7	6.8	0.00	2.5	-79	2.3	22	
1130	5.03	150	21.68	35.6	6.8	0.00	2.2	-79	2.3	22	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	
Com	COD	USEPA Method 410.1		HCl	2-40 mL	
Com	Chloride	USEPA Method 300.0		None	1-250 ml	
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	

NOTES Field Chemistry Results (ppm): Fe^{+2} _____ Sulfide _____

Com=Compuchem
F = Field

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ALTHOUGH AREVED SITE 0830 - DIFFICULTIES IN INSERTING THE TUBE, A 3' CONDUIT WAS ATTACHED TO THE BOTTOM OF TUBE AND INSTALLATION OF TUBE (to depth ~162') WAS ACHIEVED

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-22-02

MONITORING WELL ID: HESE-01-06I | ACTIVITY TIME: START 1645 END 1800 | BOTTLE TIME: 1750

LABEL SAMPLE ID: HESE0106I02xx | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [✓]

DTB 29.36

INITIAL DTW: 5.13 ft (TOR) | FINAL DTW: 5.13 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.12 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 42 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1705	5.13	.300	23.2	0.764	6.15	1.5	10.04	-51	—	—	STRONG ODOR
1710	5.13	.300	23.2	0.831	6.15	1.2	8.84	-113	—	—	PID OF
1715	5.13	.300	23.2	0.877	6.14	1.0	9.87	-149	—	—	PURGE WATER
1725	5.13	.300	23.2	0.916	6.15	0.8	6.57	-178	—	—	168ppm
1730	5.13	.300	23.2	0.866	6.18	0.8	6.44	-188	—	—	
1735	5.13	.300	23.2	0.960	6.15	0.6	5.10	-198	—	—	
1740	5.13	.300	23.2	0.969	6.16	0.8	9.05	-201	—	—	
1745	5.13	.300	23.1	0.982	6.16	0.6	7.05	-203	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [ ]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[ ]
Com [ ]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[ ]
Com [ ]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[ ]
Com [ ]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[ ]
Com [ ]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[ ]
Com [ ]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[ ]
Com [ ]	COD	USEPA Method 410.1		HCl	2-40 mL	[ ]
Com [ ]	Chloride	USEPA Method 300.0		None	1-250 ml	[ ]
F [ ]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[ ]

NOTES: Field Chemistry Results (ppm): Fe^{+2} ____ Sulfide ____

Com=Compuchem
F = Field

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/22/02

MONITORING WELL ID: ~~MW 60~~ HESE-01 60 | ACTIVITY TIME: START 1355 END 1740 | BOTTLE TIME: 1723

LABEL SAMPLE ID: HESE0106D02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

INITIAL DTW: 5.31 ft (TOR) | FINAL DTW: 5.27 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.34 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 7.5 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1650	5.27	300m	21.44	~~6.55~~ 34.8	6.55	3.65	3.28	-184			bulfur smell
1705			21.42	34.8	6.56	2.01	6.37	-180			
1710			21.35	34.7	6.61	1.55	5.41	-178			
1715			21.26	34.7	6.56	1.15	4.22	-177			
1720			21.24	34.7	6.56	0.69	3.84	-175			

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	
Com	COD	USEPA Method 410.1		HCl	2-40 mL	
Com	Chloride	USEPA Method 300.0		None	1-250 ml	
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	

NOTES: Field Chemistry Results (ppm): Fe^{+2} _____ Sulfide _____

Com=Compuchem
F = Field

SIGNATURE: Karen C. Kurey

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 22 April 02

MONITORING WELL ID: HESE - 01 - 07I | ACTIVITY TIME: START 1700 END 1800 | BOTTLE TIME: 1755

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 5.32 ft (TOR) | FINAL DTW: 5.36 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0064 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.12

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00205

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 1.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE mL/m	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1720	5.36										
1725	5.36										
1730	5.36	200	22	2.11	3.9	0.15	3.4	213	0.1	1.4	
1735	5.36	200	22	2.12	3.9	0.64	1.6	211	0.1	1.4	
1740	5.36	200	22	2.11	3.9	0.65	1.5	209	0.1	1.3	
1745	5.36	200	22	2.12	3.9	0.68	1.4	208	0.1	1.3	
1750	5.36	200	23	2.14	3.9	0.72	1.4	210	0.1	1.4	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [✓]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [ ]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[ ]
Com [ ]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[ ]
Com [ ]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[ ]
Com [ ]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[ ]
Com [ ]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[ ]
Com [ ]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[ ]
Com [ ]	COD	USEPA Method 410.1		HCl	2-40 mL	[ ]
Com [ ]	Chloride	USEPA Method 300.0		None	1-250 ml	[ ]
F [ ]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[ ]

NOTES

Com=Compuchem
F = Field

Field Chemistry Results (ppm): Fe^{+2} _____ Sulfide _____

SIGNATURE: [signature]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 23 Apr. 02

MONITORING WELL ID: H-ESE-01-07D | ACTIVITY TIME: START ~~1605~~ ARH 1615 END 1700 | BOTTLE TIME: 1650

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA (DUPLICATE) | BLADDER PUMP: ☐ | PERISTALTIC PUMP: ☑

INITIAL DTW: 5.33 ft (TOR) | FINAL DTW: 5.35 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0032 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.34 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0014

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0.4 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1625	5.33	200	22	31.4	6.9	0.88	3.6	-324	2.0	19	
1630	5.33	200	22	31.5	6.9	0.34	3.5	-330	2.0	19	
1635	5.33	200	22	31.9	6.9	0.36	3.3	-335	2.2	20	
1640	5.34	200	22	32.4	6.9	0.37	3.2	-339	2.2	21	
1645	5.34	200	22	32.9	6.9	0.37	3.0	-339	2.2	21	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ☑	TCLVOA (VOCs) + Duplicate	SW 846 Method 8260B		HCl	4-40 mL	☑ + Dups.
Com ☐	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	☐
Com ☐	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	☐
Com ☐	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	☐
Com ☐	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	☐
Com ☐	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	☐
Com ☐	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	☐
Com ☐	COD	USEPA Method 410.1		HCl	2-40 mL	☐
Com ☐	Chloride	USEPA Method 300.0		None	1-250 ml	☐
F ☐	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	☐

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} ____ Sulfide ____

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123

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ____ OF ____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-24-02

MONITORING WELL ID: H-ESE-01-08D | ACTIVITY TIME: START 1210 END 1245 | BOTTLE TIME: 1240

LABEL SAMPLE ID: HESE0108D02XX | ASSOCIATED TRIP BLANK: TB2K02

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.76 ft (TOR) | FINAL DTW: 4.85 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0144 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.4 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0103

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.2 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1215	4.85	150	21	30.4	6.8	0.09	5.8	-286	1.9	19	
1220	4.85	150	21	30.4	6.8	0.3	5.8	-285	1.9	19	
1225	4.85	150	21	30.5	6.8	0.4	5.9	-286	1.9	19	
1230	4.85	150	22	30.6	6.8	0.5	6.0	-289	1.9	19	
1235	4.85	150	22	30.6	6.8	0.5	6.0	-291	1.9	19	

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com		TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	
Com		Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	
Com		Sulfate	USEPA Method 300.0		None	1-1 liter plastic	
Com		Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	
Com		Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	
Com		Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	
Com		COD	USEPA Method 410.1		HCl	2-40 mL	
Com		Chloride	USEPA Method 300.0		None	1-250 ml	
F		Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	

NOTES: Field Chemistry Results (ppm): Fe^{+2} ____ Sulfide ____

Com=Compuchem
F = Field

SIGNATURE: [illegible]

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Also collect sample from BOW purple colour oil-like material

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-24-02

MONITORING WELL ID: H-ESE-01-09D | ACTIVITY TIME: START 0900 END 0940 | BOTTLE TIME: 0930

LABEL SAMPLE ID: HESE0109D02XX | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 5.15 ft (TOR) | FINAL DTW: 5.16 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0016 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.56 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.001026

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.3 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0905	5.17	150	21	26.7	6.3	2.3	2.1	-2	1.7	17	
0910	5.16	150	21	27.3	6.3	1.7	1.2	-15	1.7	17	
0915	5.16	150	21	27.2	6.3	1.4	0.9	-22	1.7	17	
0920	5.16	150	21	27.3	6.3	1.3	1.0	-24	1.7	17	
0925	5.16	150	21	27.3	6.3	1.1	1.1	-28	1.7	17	
0930											

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	
Com	COD	USEPA Method 410.1		HCl	2-40 mL	
Com	Chloride	USEPA Method 300.0		None	1-250 ml	
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} _____ Sulfide _____

SIGNATURE: [illegible]

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Stratford Army Engine Plant | CONSULTANT | Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-~~23~~ 24-02 (BA)

MONITORING WELL ID: HESE-01-10D | ACTIVITY TIME: START 0850 END 1030 | BOTTLE TIME: 1015

LABEL SAMPLE ID: HESE0110D02XX | ASSOCIATED TRIP BLANK: TB/K02

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 5.48 ft (TOR) | FINAL DTW: 5.48 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.89 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 7.6 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0940	5.50	0.150	20.1	28.1	6.45	3.1	18.0	-243	—	—	PURGING @
0945	5.48	0.150	20.2	28.0	6.43	2.7	19.2	-274	—	—	200ml/min
0950	5.48	0.150	20.2	28.0	6.43	1.4	19.2	-272	—	—	FOR 10min
0955	5.48	0.150	20.2	28.0	6.44	1.0	17.5	-273	—	—	THEN DROP TO
1000	5.48	0.150	20.2	28.0	6.46	1.0	15.2	-269	—	—	150ml/min
1005	5.48	0.150	20.2	28.0	6.47	0.9	13.5	~~-264~~ -262	—	—	PURGE WATER
1010	5.48	0.150	20.2	28.1	6.47	0.9	12.9	-260	—	—	BLACK-PURPLE
1015	5.48	0.150	20.2	28.1	6.47	0.9	13.4	-257	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [ ]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[ ]
Com [ ]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[ ]
Com [ ]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[ ]
Com [ ]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[ ]
Com [ ]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[ ]
Com [ ]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[ ]
Com [ ]	COD	USEPA Method 410.1		HCl	2-40 mL	[ ]
Com [ ]	Chloride	USEPA Method 300.0		None	1-250 ml	[ ]
F [ ]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[ ]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} _____ Sulfide _____

SIGNATURE: Bradley B. C.T.

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/23/02

MONITORING WELL ID: HESE-01-12I | ACTIVITY TIME: START 0845 END 1150 | BOTTLE TIME: 1110

LABEL SAMPLE ID: HESE0112I02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: ☐ | PERISTALTIC PUMP: ✓

DRAWDOWN VOL: .04 mgL 8/14/02

INITIAL DTW: 5.0 ft (TOR) | FINAL DTW: 5.3 ft (TOR) | INITIAL - FINAL X 0.16 gal/ft: ~~.04~~ gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: .5 3.64 mgL 8/14/02

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE: SEC | REFILL: SEC | PRESSURE: psi

PID AT WELLHEAD: .9 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0915	5.0	450ml	22.29	4.83	5.54	6.59	2.13	-2.1	—	—	—
1025	5.0	350ml	22.02	25.8	4.96	4.32	12.2	28	—	—	—
1030	—	—	22.07	27.3	5.00	1.61	5.72	77	—	—	—
1035	—	—	22.04	27.5	5.00	0.94	6.30	108	—	—	—
1040	—	—	22.00	27.6	5.03	0.48	4.19	128	—	—	—
1045	—	—	21.99	27.6	5.04	0.36	3.26	132	—	—	—
1050	—	—	21.98	27.5	5.05	~~0.09~~ 0.15	5.79	136	—	—	—
1055	—	—	21.97	27.4	5.07	0.09	3.24	138	—	—	—

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0; Sulfide 0.0

SIGNATURE: Karen O. Kuney

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 23 April 02

MONITORING WELL ID: HESE-01-12D | ACTIVITY TIME: START 1415 END 1555 | BOTTLE TIME: 1500

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

INITIAL DTW: 5.20 ft (TOR) | FINAL DTW: 5.22 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0032 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~5.46~~ 3.9 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: ~~0.00082~~ 0.00082

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 1.1 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1425	5.22	150	22	33.5	6.8	1.7	2.4	-131	2.1	21	
1430	5.23	150	22	34.6	6.8	2.3	0.6	-116	2.2	21	
1435	5.24	150	22	34.7	6.8	2.2	0.8	-111	2.2	21	
1440	5.23	150	22	34.8	6.8	0.2	0.7	-107	2.2	21	
1445	5.23	150	22	34.8	6.8	0.2	0.6	-104	2.2	21	
1450	5.22	150	22	34.8	6.8	0.2	0.5	-101	2.2	21	
1455	5.22	150	22	34.8	6.8	0.2	0.3	-101	2.2	21	

(*) NOTE - Collected sample of DNAPL in this well on 4-24-02. Collected approx. 4 oz.

ALSO, DNAPL was measured w/ oil/water interface probe on 3-27-02 at thickness of 0.2'

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 9.4 mg/L; Sulfide 0.3 mg/L

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-23-02

MONITORING WELL ID: HESE-01-14I | ACTIVITY TIME: START 1025 END 1130 | BOTTLE TIME: 1100

LABEL SAMPLE ID: HESE 0114I02XX | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 5.00 ft (TOR) | FINAL DTW: 5.25 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.04 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.6 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.015

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 35.2 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1030	5.23	.300	22.2	9.40	6.57	2.0	4.16	175	–	–	
1035	5.25	.300	22.1	9.33	6.57	1.0	4.60	172	–	–	
1040	5.24	.275	22.3	9.29	6.55	0.8	8.81	166	–	–	
1045	5.24	.275	22.2	9.09	6.55	0.7	4.18	164	–	–	
1050	5.24	.275	22.1	9.03	6.55	0.6	6.73	162	–	–	
1055	5.25	.275	22.0	8.93	6.54	0.6	4.52	160	–	–	
1100	5.25	.275	22.0	8.80	6.54	0.6	4.62	158	–	–	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES
Com=Compuchem
F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: [signature]

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/24/02

MONITORING WELL ID: MW-15I | ACTIVITY TIME: START 0850 END 1050 | BOTTLE TIME: 1000

LABEL SAMPLE ID: HESE-01-15I | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

DRAWDOWN VOL .06 mg/L 5/114 oz

INITIAL DTW: 5.5 ft (TOR) | FINAL DTW: 5.9 ft (TOR) KB 4/26/02 | INITIAL - FINAL X 0.16 gal/ft: ~~0.94~~ gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~2.34~~ 1.82

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: ~~0.87~~ NA ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
KB 4/24/02 ~~0915~~	5.5	200ml	20.49	16*	6.13	10.14	140	187	—	—	Cloudy, Strong smell
0920 ~~0920~~	—	—	20.56	17*	6.13	5.32	70	179	—	—	
0925 0930	5.9	—	20.60	16*	6.12	3.57	33	174	—	—	PID in Carboy 1028 ppm
0935	—	200mL	20.62	16*	6.12	1.32	14	167	—	—	
0940	—	—	20.62	16*	6.13	0.85	8.9	164	—	—	—
0945	—	—	20.67	15*	6.13	0.61	8.8	161	—	—	
0950	—	—	20.72	16*	6.15	0.38	4.5	156	—	—	—

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Karen C. Hussey

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* Discrepant Conductivity Readings

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Sensor broken on Horiba.

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-25-02

MONITORING WELL ID: HESE-01-16 I | ACTIVITY TIME: START 1020 END 1150 | BOTTLE TIME: 1115

LABEL SAMPLE ID: HESE0116I02XX | ASSOCIATED TRIP BLANK: TBK03

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 5.14 ft (TOR) | FINAL DTW: 5.28 ft (TOR)

DRAWDOWN VOL: 0.022 INITIAL - FINAL X 0.16 gal/ft: ~~0.44~~ gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.5

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.015

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 50 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1050	5.26	0.150	16.7	3.79	6.64	1.1	6.9	-51	—	—	START PURGE
1055	5.26	0.150	16.7	3.66	6.65	0.9	6.2	-43	—	—	@ 275 ml/min
1100	5.26	0.150	16.7	3.58	6.64	0.8	5.5	-41	—	—	DRAWDOWN.
1105	5.27	0.150	16.7	3.52	6.64	0.8	7.3	-40	—	—	LOWER PUMP
1110	5.28	0.150	16.8	3.49	6.63	0.7	5.3	-40	—	—	RATE TO
1115	5.28	0.150	16.7	3.43	6.62	0.7	4.4	-40	—	—	150 ml/min

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 2.6 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Bradley B. [illegible]

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/25/02

MONITORING WELL ID: mw 1TI | ACTIVITY TIME: START 0805 END 1425 | BOTTLE TIME: 1400

LABEL SAMPLE ID: HESE-01-1TI02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

DRAWDOWN VOL: 3.30 mL 5/19/02

INITIAL DTW: 4.01 ft (TOR) | FINAL DTW: 24.65 ft (TOR) | INITIAL - FINAL X 0.16 gal/ft: ~~3.94~~ gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 8.32

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: N/A

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: ~~0.01~~ N/A ppmv mk 5/14/02

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0845	4.01	100	13.81	57	6.25	0.30	9.4	-204	–	–	
0850	–		13.69	57	6.25	0.00	0.13	-227	–	–	
0855	–		13.73	57	6.26	0.00	0.15	-242	–	–	
0900	6.06	100	13.78	57	6.26	0.00	8.6	-253	–	–	
0905	8.02		13.72	57	6.26	0.00	9.0	-260	–	–	
0910	–		13.60	57	6.26	0.00	10.0	-259	–	–	
0915	–		13.63	57	6.26	0.00	9.6	-261	–	–	
0920	–		13.59	57	6.27	0.00	9.9	-262	–	–	
1015	13.03	100	14.28	58	6.27	0.40	11.0	-264	–	–	
of 4 pts 1030	14.0	↓	14.36	58	6.28	0.00	11.0	-271	–	–	
1045 ~~1045~~	15.4	300	14.23	58	6.29	0.00	11.0	-274	–	–	
1100	16.4		14.27	58	6.29	0.00	11.0	-276	–	–	
1115	20.2		14.26	58	6.30	0.00	26.4	-290	–	–	
1130	21.7		14.24	58	6.22	0.00	6.22	-289	–	–	
1145	22.8		14.24	58	6.30	0.00	2.69	-296	–	–	
1200	24.65	↓	14.30	58	6.29	0.00	3.09	-302	–	–	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} ~~1.4~~ mg/L; Sulfide ~~5.0~~ mg/L

SIGNATURE: Karen A. Sherey

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* Purged well dry, well recharged to 23.7 ft when sample was taken. Sample was [illegible] was slow to come down at good pace.

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-25-02

MONITORING WELL ID: HESE-01-17D | ACTIVITY TIME: START 0800 END 0950 | BOTTLE TIME: 0900

LABEL SAMPLE ID: HESE0117D02XX | ASSOCIATED TRIP BLANK: TBK03

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 3.35 ft (TOR) | FINAL DTW: 3.16 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.3 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 5.5 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0825	3.28	0.250	14.2	34.7	6.74	6.3	90	-63	—	—	TIDE COMING
0830	3.20	0.250	14.2	34.9	6.75	6.0	95	-67	—	—	IN. WATER
0835	3.17	0.250	14.3	35.1	6.75	5.6	70	-71	—	—	LEVEL RISING
0840	3.16	0.250	14.3	35.2	6.75	5.2	45	-73	—	—	NO ALKA-
0845	3.15	0.250	14.2	35.2	6.75	4.7	33	-75	—	—	SELTZER
0850	3.17	0.250	14.2	35.3	6.75	4.4	25	-75	—	—	AVAILABLE
0855	3.16	0.250	14.3	35.3	6.76	4.0	12	-75	—	—	FOR HYDROGEN
0900	3.16	0.250	14.3	35.3	6.77	3.7	8.1	-75	—	—	SULFIDE.

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	☑
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	☑
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	☑
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	☑
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	☑
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	☑
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	☑
Com	COD	USEPA Method 410.1		HCl	2-40 mL	☑
Com	Chloride	USEPA Method 300.0		None	1-250 ml	☑
F	Fe^{+2}, Sulfide	Hach Method		None	1-250 ml plastic	☑

NOTES: Field Chemistry Results (ppm): Fe^{+2} 6.4 mg/L; Sulfide ~~NOT~~ AVAILABLE

Com=Compuchem
F = Field

SIGNATURE: Bradley B. [illegible]

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~50'

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-25-02

MONITORING WELL ID: HESE-01-18D | ACTIVITY TIME: START 0840 END 1010 | BOTTLE TIME: 0930

LABEL SAMPLE ID: HESE0118D02XX | ASSOCIATED TRIP BLANK: TB K03

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.35 ft (TOR) | FINAL DTW: 4.20 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.024 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.87 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00493

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 4.1 ppmv

"50' x 70 x 0.26"

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0900	4.30	250	16	15.4	6.7	0.0	1.3	-30	0.9	10	
0905	4.30	200	16	15.2	6.7	0.0	1.1	-28	0.9	9	TIDAL influence
0910	4.29	200	16	15.1	6.7	0.0	1.0	-27	0.9	9	
0915	4.28	200	16	14.9	6.7	0.0	0.9	-23	0.9	9	
0920	4.27	200	16	14.8	6.7	0.0	0.8	-20	0.9	9	
0925	4.26	200	16	14.7	6.6	0.0	0.8	-17	0.8	9	

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	✓	Fe^{2+}, ~~Sulfide~~	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 4.0 mg/L; Sulfide N/A

(INADEQUATE Supply of ALKA-SELTZER)

SIGNATURE: [signature]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-26-02

MONITORING WELL ID: MW-1 | ACTIVITY TIME: START 0830 END 0940 | BOTTLE TIME: 0915

LABEL SAMPLE ID: MW1042Y4 | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [✓]

INITIAL DTW: 5.29 ft (TOR) | FINAL DTW: 5.22 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0112 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.16 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0027

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0840	5.29	200	14	0.463	6.5	1.65	0.0	192	0.0	0.30	
0845	5.29	200	14	0.462	6.5	1.79	0.0	186	0.0	0.30	
0850	5.28	200	14	0.460	6.5	2.00	0.0	179	0.0	0.30	
0855	5.27	200	14	0.458	6.5	1.82	0.0	179	0.0	0.30	
0900	5.27	200	14	0.460	6.5	1.73	0.0	178	0.0	0.30	
0905	5.26	200	14	0.462	6.5	1.62	0.0	178	0.0	0.30	
0910	5.26	200	14	0.463	6.5	1.64	0.0	179	0.0	0.30	
0915	5.25	200	14	0.464	6.5	1.65	0.0	179	0.0	0.31	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 0.5 mg/L; Sulfide 0.1 mg/L

Com=Compuchem
F = Field

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WELL LID WILL REQUIRE REPLACEMENT.

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-26-02

MONITORING WELL ID: MW-2 | ACTIVITY TIME: START 1010 END 1130 | BOTTLE TIME: 1100

LABEL SAMPLE ID: MW202XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: ☐ | PERISTALTIC PUMP: ✓

INITIAL DTW: 4.72 ft (TOR) | FINAL DTW: 4.79 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0112 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.2 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0027

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 7.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1020	4.78	200	15	1.84	6.8	0.0	2.1	-110	0.1	1.2	
1025	4.78	200	15	1.85	6.8	0.0	1.9	-111	0.1	1.2	
1030	4.79	200	15	1.85	6.8	0.0	1.7	-112	0.1	1.2	
1035	4.79	200	15	1.85	6.8	0.0	1.0	-113	0.1	1.2	
1040	4.79	200	15	1.84	6.8	0.0	0.7	-115	0.1	1.2	
1045	4.80	200	15	1.84	6.8	0.0	0.6	-117	0.1	1.2	
1050	4.80	200	15	1.83	6.8	0.0	0.7	-119	0.1	1.2	
1055	4.80	200	15	1.83	6.8	0.0	0.7	-122	0.1	1.2	

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 5.0 mg/L; Sulfide 0.1 mg/L

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-25-02

MONITORING WELL ID: MW-4 | ACTIVITY TIME: START 1200 END 1315 | BOTTLE TIME: 1300

LABEL SAMPLE ID: MW402XX | ASSOCIATED TRIP BLANK: TBK03

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 9.32 ft (TOR) | FINAL DTW: 9.61 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0464 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.9 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.01189

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1210	9.39	200	12	4.06	7.3	0.2	2.6	-103	0.2	2.7	
1215	9.40	200	12	4.10	7.3	0.1	2.0	-110	0.2	2.8	
1220	9.41	200	12	4.19	7.3	0.0	1.5	-112	0.2	2.9	
1225	9.42	200	12	4.25	7.3	0.0	1.8	-112	0.2	2.9	
1230	9.43	200	12	4.29	7.3	0.0	2.1	-115	0.2	2.9	
1235	9.44	200	12	4.34	7.3	0.0	2.3	-118	0.2	3.0	
1240	9.46	200	12	4.34	7.2	0.0	2.1	-121	0.2	3.1	
1245	9.47	200	12	4.36	7.2	0.0	1.8	-125	0.3	3.1	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [✓]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [✓]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[✓]
Com [✓]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[✓]
Com [✓]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[✓]
Com [✓]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[✓]
Com [✓]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[✓]
Com [✓]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[✓]
Com [✓]	COD	USEPA Method 410.1		HCl	2-40 mL	[✓]
Com [✓]	Chloride	USEPA Method 300.0		None	1-250 ml	[✓]
F [✓]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[✓]

NOTES: Field Chemistry Results (ppm): Fe^{+2} 1 mg/L; Sulfide 0.5 mg/L

Com=Compuchem
F = Field

SIGNATURE: A. Haines

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/1/02

MONITORING WELL ID: MWCD-99-01A | ACTIVITY TIME: START 1355 END 1540 | BOTTLE TIME: 1525

LABEL SAMPLE ID: MWCD9901A02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 6.31 ft (TOR) | FINAL DTW: 5.88 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.1 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1415	6.28	Spud pump and set rate									
1422	6.17	250	11.2	30.2	9.7	1.2	22	-176	1.9	18 g/L	
1425	6.16		11.2	30.5	10.5	0.8	14	-183	1.9	19	
1430	6.17		11.1	30.6	10.7	0.6	11	-188	1.9	19	
1435	6.11		11.0	30.8	10.7	0.6	6.5	-191	1.9	19	Screen
1440	6.08		11.1	30.9	10.8	0.5	3.9	-193	1.9	19	≈ 5-10' BGS
1445	6.06		11.0	31.0	10.8	0.5	2.6	-194	1.9	19	
1450	6.02		11.0	31.1	10.8	0.5	2.1	-195	1.9	19	
1455	5.98		11.0	31.3	10.8	0.5	1.3	-196	1.9	19	
1500	5.94		11.0	31.5	10.8	0.5	0.9	-197	1.9	19	
1504	5.91		11.0	31.6	10.8	0.5	0.9	-197	1.9	19	
1508	5.88		10.9	31.6	10.8	0.5	1.1	-197	1.9	19	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com X	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	X
Com X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 1.5 ppm; Sulfide 0.3 ppm

SIGNATURE: Jerry Rauch

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-1-02

MONITORING WELL ID: MWCD-99-01B | ACTIVITY TIME: START 1345 END 1525 | BOTTLE TIME: 1430

LABEL SAMPLE ID: MWCD9901B02XX | ASSOCIATED TRIP BLANK: TBK07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 4.66 ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.95 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.7 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1400	4.55	0.250	—	—	—	—	—	—	—	—	TIDE COMING
1405	4.51	0.250	13.3	15.0	6.70	1.9	40.7	-49	—	—	IN
1410	4.46	0.250	13.3	15.0	6.69	1.4	16.5	-54	—	—	SOME ORANGE
1415	4.44	0.250	13.3	15.0	6.70	1.3	12.1	-56	—	—	FLOC.
1420	4.40	0.250	13.3	15.0	6.70	1.1	9.49	-58	—	—	
1425	4.35	0.250	13.3	15.0	6.70	0.9	9.42	-60	—	—	
1430	4.34	0.250	13.3	15.0	6.70	0.8	9.75	-62	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 4.4 mg/L; Sulfide 0.0 mg/L

SIGNATURE: [signature]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/1/02

MONITORING WELL ID: MWCD-99-2A | ACTIVITY TIME: START 1210 END 1345 | BOTTLE TIME: 1320

LABEL SAMPLE ID: MWCD9902A02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 10.94 ft (TOR) | FINAL DTW: 10.31 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.2 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE — SEC | REFILL — SEC | PRESSURE — psi

PID AT WELLHEAD: 0.8 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (g/L)	COMMENTS
1233	10.94	Start pump and set rate									
1240	10.78	.220	10.3	35.8	6.7	8.9	5.1	86	2.2	22	
1245	10.72		10.1	35.8	6.7	8.7	2.4	84	2.2	22	
1250	10.66		10.2	35.8	6.7	8.6	1.4	84	2.2	22	
1255	10.54		10.0	35.9	6.8	8.7	0.7	83	2.2	22	
1300	10.45		10.0	35.8	6.8	8.7	0.8	83	2.2	22	screen
1305	10.38		10.0	35.8	6.8	8.6	0.8	81	2.2	22	= 5-10' BGS
1310	10.37		10.0	35.9	6.7	8.6	0.6	82	2.2	22	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com X	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	X
Com X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} <0.1 (ND); Sulfide <0.01 (ND)

SIGNATURE: Jerry Rauchle

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-1-02

MONITORING WELL ID: MWCD-99-02B | ACTIVITY TIME: START 1220 END 1345 | BOTTLE TIME: 1300

LABEL SAMPLE ID: MWCD9902B02XX | ASSOCIATED TRIP BLANK: TBK07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 7.56 ft (TOR) | FINAL DTW: 7.61 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.008 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.0 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.004

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1230	8.25	0.225	12.7	12.1	7.00	2.4	77.8	-73	—	—	TIDE COMING
1240	8.07	0.225	12.8	12.5	6.96	2.6	20.2	-71	—	—	IN
1245	7.97	0.225	12.7	12.6	6.95	2.5	24.7	-70	—	—	ORANGE FLOC
1250	7.86	0.225	12.7	12.8	6.94	2.2	45.3	-68	—	—	
1255	7.71	0.225	12.8	12.7	6.93	2.0	49.5	-68	—	—	
1300	7.61	0.225	12.8	12.7	6.93	1.8	48.5	-67	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 3.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: [signature]

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/7/02

MONITORING WELL ID: PZ-11D | ACTIVITY TIME: START 1215 END 1430 | BOTTLE TIME: 1400

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA | BLADDER PUMP [ ] | PERISTALTIC PUMP [X]

INITIAL DTW: 4.21 ft (TOR) | FINAL DTW: 4.40 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: .03 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.8 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: .01

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 2.2 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1234	4.21	Start pump and set rate									
1244	4.44	.250	14.4	1.56	7.0	3.9	2.9	59	0.1	1.0	
1250	4.46	↓	14.4	1.49	7.1	3.4	3.1	53	0.1	1.0	
1255	4.51	↓	14.6	1.53	7.1	2.2	2.6	56	0.1	1.0	
1300	4.39	.175	14.4	1.58	7.1	1.6	2.2	56	0.1	1.0	
1305	4.40	↓	14.4	1.60	7.0	1.4	3.4	59	0.1	1.0	
1310	4.40	↓	14.3	1.62	7.1	1.1	2.6	58	0.1	1.0	
1315	4.40	↓	14.4	1.63	7.1	1.1	1.3	57	0.1	1.0	Screen =
1320	4.40	↓	14.4	1.65	7.1	1.0	1.8	54	0.1	1.0	24-34' BGS
1325	4.40	↓	14.4	1.66	7.1	1.0	1.7	56	0.1	1.0	
											Intake
											≈ 30'
	Also collected MS/MSD										

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED	
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]	MSD #114
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]	MS #113
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]	FS #20
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]	
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]	
Com [X]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]	
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]	
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]	
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]	
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]	

NOTES: Field Chemistry Results (ppm): Fe^{+2} <0.1 (ND); Sulfide <0.0 (ND)

Com=Compuchem
F = Field

SIGNATURE: Jerry Rawlings

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/21/07

MONITORING WELL ID: PZ-13D | ACTIVITY TIME: START 1520 END 1715 | BOTTLE TIME: 1705

LABEL SAMPLE ID: PZ13D02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 4.12 ft (TOR) | FINAL DTW: 4.12 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.6 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1355	4.12	Start pump and set rate.									
1603	4.12	.175	16.0	.642	6.1	4.4	6.3	124	0	0.46	g/L
1609	4.12	.220	16.4	1.37	5.9	1.9	3.7	132	0.1	0.9	
1615	4.12		16.5	1.41	5.9	1.2	4.0	136	0.1	0.9	
1620	4.12		16.6	1.43	6.2	1.0	2.7	117	0.1	0.9	
1625	4.12		16.6	1.42	6.3	0.9	1.8	112	0.1	0.9	
1630	4.12		16.7	1.42	6.4	0.9	1.8	109	0.1	0.9	
1635	4.12		16.7	1.43	6.4	0.8	~~[illegible]~~ 1.8	107	0.1	0.9	Screen
1640	4.12		16.7	1.43	6.4	0.8	1.6	104	0.1	0.9	21.5-31.5 bgs
1645	4.12		16.7	1.43	6.4	0.8	1.5	102	0.1	0.9	
											Invert head ≈25' bgs

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

Cond #76

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} <0.01 (ND); Sulfide <0.1 (ND)

SIGNATURE: Jerry Rauch

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant PZ-16D | JOB NUMBER: 52985-02 | DATE: 4/29/02

MONITORING WELL ID: PZ16D02XX | ACTIVITY TIME: START 1530 END 1730 | BOTTLE TIME: 1720

LABEL SAMPLE ID: A77 | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 3.94 ft (TOR) | FINAL DTW: 4.02 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: .013 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.3 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: .002

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 0.8 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1550	3.94	Start pump and set rate									(gal)
1600	4.03	250	15.6	.549	8.2	2.6	6.0	-21	0	0.35	
1610	4.02		16.0	.564	8.7	1.8	76	-55	0	0.36	Orange floch
1615	4.01		16.0	.567	8.7	1.5	100	-56	0	0.36	in water
1620	4.01		16.0	.568	8.7	2.9	65	-55	0	0.36	emptied flow
1625	4.03		15.9	.567	8.8	1.8	11	-62	0	0.36	thru cell.
1630	4.02		16.0	.564	9.0	1.4	7.4	-71	0	0.36	
1635	4.02		15.9	.565	9.0	1.1	0.4	-76	0	0.36	
1640	4.02		16.0	.564	9.1	1.2	0.5	-83	0	0.36	
1645	4.02		16.0	.562	9.1	1.1	0.2	-86	0	0.36	
1650	4.03		16.0	.562	9.2	1.1	0.3	-90	0	0.36	
1655	4.02		16.1	.563	9.2	1.1	0.4	-93	0	0.36	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com X	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	X
Com X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

NOTES Field Chemistry Results (ppm): Fe^{+2} 1.2; Sulfide 0-0.1

Com=Compuchem
F = Field

SIGNATURE: Jerry Rauch

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-26-02

MONITORING WELL ID: PZ-17D | ACTIVITY TIME: START 1130 END 1250 | BOTTLE TIME: 1210

LABEL SAMPLE ID: PZ17D02XX | ASSOCIATED TRIP BLANK: TBK04

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 3.27 ft (TOR) | FINAL DTW: 3.89 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.099 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.4 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.07

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 8.6 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1140	3.80	0.150	15.1	18.9	7.05	3.2	6.12	12	—	—	
1145	3.81	0.150	15.2	18.8	7.01	1.6	4.55	15	—	—	
1150	3.89	0.150	15.4	18.8	6.99	1.0	4.75	22	—	—	
1155	3.89	0.150	15.5	18.8	6.99	0.9	4.00	25	—	—	
1200	3.89	0.150	15.5	18.8	6.98	0.9	4.38	28	—	—	
1205	3.89	0.150	15.7	18.8	7.01	0.9	4.00	30	—	—	
1210	3.89	0.150	15.7	18.8	7.00	0.9	4.00	31	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES
Com=Compuchem
F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Bradley B. [illegible]

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-01-2007

MONITORING WELL ID: PZ 1D | ACTIVITY TIME: START 1445 END 1550 | BOTTLE TIME: 1530

LABEL SAMPLE ID: PZ1D02XX | ASSOCIATED TRIP BLANK: TBK 07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.63' ft (TOR) | FINAL DTW: 4.62 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0016 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3½ gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00047

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0.4 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1455	4.67	200	17	7.00	6.8	0.2	2.7	1	0.4	4.4	
1500	4.67	200	17	7.01	6.8	0.2	1.8	-1	0.4	4.4	
1505	4.68	200	17	7.03	6.8	0.2	0.4	-3	0.4	4.4	
1510	4.67	200	17	7.05	6.8	0.1	0.0	-8	0.4	4.5	
1515	4.66	200	17	7.08	6.8	0.1	0.0	-11	0.4	4.5	
1520	4.66	200	17	7.10	6.8	0.1	0.0	-14	0.4	4.5	
1525	4.66	200	17	7.10	6.8	0.0	0.0	-16	0.4	4.5	

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 3.4 mg/L; Sulfide 0.0 mg/L

Com=Compuchem
F = Field

SIGNATURE: [illegible]

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HAVE to BAIL

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-25-02

MONITORING WELL ID: PZ-4D-~~0EBW~~ | ACTIVITY TIME: START 1355 END 1530 | BOTTLE TIME: 1445

LABEL SAMPLE ID: PZ4D02XX | ASSOCIATED TRIP BLANK: TBK03

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 2.86 ft (TOR) | FINAL DTW: 3.31 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.072 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.6 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.03

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.9 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
~~[illegible]~~		~~[illegible]~~									
1405	3.26	0.200	13.9	7.12	6.58	3.0	21.2	-151	—	—	
1410	3.24	0.200	13.9	7.07	6.57	2.7	42.7	-190	—	—	
1415	3.26	0.200	13.9	7.12	6.57	2.4	13.7	-217	—	—	
1420	3.26	0.200	14.1	7.13	6.56	2.2	16.0	-229	—	—	
1425	3.28	0.200	14.0	7.10	6.56	1.9	14.8	-238	—	—	
1430	3.29	0.200	14.0	7.14	6.56	1.8	13.4	-243	—	—	
1435	3.29	0.200	14.1	7.11	6.56	1.5	12.1	-248	—	—	
1440	3.30	0.200	14.1	7.07	6.56	1.4	14.9	-251	—	—	
1445	3.31	0.200	14.0	7.05	6.56	1.3	9.60	-253	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.8 mg/L; Sulfide 0.7 mg/L

SIGNATURE: Bradley B. [illegible]

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/1/02

MONITORING WELL ID: PZ-5D | ACTIVITY TIME: START 1605 END 1755 | BOTTLE TIME: 1735

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA — BLADDER PUMP: ~~NA~~ | PERISTALTIC PUMP: X

INITIAL DTW: 1.88 ft (TOR) | FINAL DTW: 2.48 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.096 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.5 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: .04

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 9.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1630	1.88	Start pump and set rate.									
1641	2.41	.250	13.9	10.2	9.0	0.9	3.0	-94	0.6	6	
1645	2.40	.175	13.9	10.2	9.0	0.6	1.3	-97	0.6	6	
1650	2.41	|	13.9	10.2	9.1	0.7	1.4	-100	0.6	6	
1655	2.44	|	13.9	10.2	9.2	0.6	0.9	-105	0.6	6	
1700	2.46	|	14.0	10.3	9.2	0.6	0.9	-108	0.6	6	
1705	2.47	|	14.0	10.3	9.2	0.7	0.6	-110	0.6	6	
1710	2.48	|	14.0	10.4	9.2	0.7	0.6	-110	0.6	6	Screen ≈
1715	2.48	|	14.0	10.4	9.2	0.7	0.6	-110	0.6	6	33-43 BGS
1719	2.48	↓	14.0	10.4	9.2	0.7	0.6	-110	0.6	6	

Petroleum (fuel oil) - like odor

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com X	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	X
Com X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

NOTES: Field Chemistry Results (ppm): Fe^{+2} 5.5 ppm; Sulfide 12 ppm (WD)

Com=Compuchem
F = Field

SIGNATURE: Jerry Rawdell

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/3/07

MONITORING WELL ID: PZ-8D | ACTIVITY TIME: START 0750 END 0945 | BOTTLE TIME: 0920

LABEL SAMPLE ID: PZ8D02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 4.20 ft (TOR) | FINAL DTW: 4.56 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: .057 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.3 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: .02

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0807	4.20	Start pump and set rate									
0815	4.53	.150	14.2	.100	6.0	9.2	21	162	0	0.06 (g/L)	
0822	4.53		14.3	0.100	6.1	9.0	5.0	154	0	0.07	
0830	4.54		14.4	0.100	6.3	8.8	4.1	143	0	0.06	
0835	4.54		14.4	.098	6.4	8.7	3.0	138	0	0.06	
0840	4.54		14.6	.098	6.4	8.6	3.6	133	0	0.06	
0845	4.55		14.6	.098	6.5	8.6	2.9	129	0	0.06	Screen
0850	4.55		14.6	.096	6.6	8.4	2.7	126	0	0.06	depth
0855	4.56		14.7	.094	6.6	8.2	2.8	123	0	0.06	≈23.5-33.5 bgs
0900	4.56		14.8	.044	6.6	8.3	2.6	122	0	0.06	
0905	4.56		14.8	.044	6.6	8.3	2.8	121	0	0.06	Intake ≈28' bgs

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} <0.01 (ND); Sulfide <0.1 (ND)

SIGNATURE: Jerry Rawcliffe

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Stratford Army Engine Plant | CONSULTANT | Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-02-2002

MONITORING WELL ID: PZ-99-02B | ACTIVITY TIME: START 1220 END 1335 | BOTTLE TIME: 1315

LABEL SAMPLE ID: PZ9902B02XX | ASSOCIATED TRIP BLANK: TBK07

35

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.66 ft (TOR) | FINAL DTW: 4.69 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0048 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.9 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00098

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.3 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1230	4.69	250	15	1.38	4.9	5.7	5.4	161	0.1	1.0	
1235	4.71	250	15	1.74	4.4	5.4	8.3	210	0.1	1.3	
1240	4.74	250	15	1.98	4.0	4.8	8.1	234	0.1	1.4	
1245	4.74	250	15	2.10	3.9	4.3	8.2	252	0.1	1.6	
1250	4.76	250	15	2.32	3.8	0.0	3.5	257	0.1	1.6	
1255	4.77	250	15	2.64	3.8	0.0	3.1	261	0.1	1.7	
1300	4.76	250	16	2.67	3.7	0.0	2.2	263	0.1	1.7	
1305	4.75	250	16	2.67	3.7	0.0	1.8	266	0.1	1.7	
1310	4.74	250	16	2.69	3.7	0.0	0.6	275	0.1	1.8	
1315	4.73	250	16	2.70	3.7	0.0	0.0	289	0.1	1.8	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [✓]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [✓]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[✓]
Com [✓]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[✓]
Com [✓]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[✓]
Com [✓]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[✓]
Com [✓]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[✓]
Com [✓]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[✓]
Com [✓]	COD	USEPA Method 410.1		HCl	2-40 mL	[✓]
Com [✓]	Chloride	USEPA Method 300.0		None	1-250 ml	[✓]
F [✓]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[✓]

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 5.0 mg/L; Sulfide 0.0 mg/L

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HAVE to Bail; 3X PVC pipes in MW1

FIELD CONDITIONS: RAIN + COLD 34°F

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-02-02

MONITORING WELL ID: PZ-99-03 | ACTIVITY TIME: START 0830 END 0940 | BOTTLE TIME: 0920

LABEL SAMPLE ID: PZ990302XX | ASSOCIATED TRIP BLANK: TBK 07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.65 ft (TOR) | FINAL DTW: 4.72 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0112 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.55 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00246

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0.3 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0840	4.69	250	16	0.76	6.0	2.7	0.00	203	0.0	0.5	
0845	4.68	250	16	0.75	6.0	2.7	0.00	198	0.0	0.5	
0850	4.68	250	16	0.75	6.0	2.7	0.00	194	0.0	0.5	
0855	4.68	250	16	0.75	6.0	2.7	0.0	191	0.0	0.5	
0900	4.68	250	16	0.75	6.0	2.6	0.0	187	0.0	0.5	
0905	4.69	250	16	0.75	6.0	2.7	0.0	182	0.0	0.5	
0910	4.70	250	16	0.75	6.0	2.7	0.0	179	0.0	0.5	
0915	4.70	250	16	0.75	6.0	2.6	0.0	176	0.0	0.5	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 0.2 mg/L; Sulfide 0.0 mg/L

Com=Compuchem
F = Field

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WELL LID MISLABELED AS "08" #03
HAD to BAIL WELL REGION to ACCESS TOR,
HAD to Cut tubing & install in Piezometer

FIELD CONDITIONS: RAIN 35°F

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-02-2002

MONITORING WELL ID: PZ-99-04 I | ACTIVITY TIME: START 1430 END 1545 | BOTTLE TIME: 1525

LABEL SAMPLE ID: PZ9904I 02 XX | ASSOCIATED TRIP BLANK: TBK07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.74 ft (TOR) | FINAL DTW: 4.83 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0144 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.0 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0037

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1440	5.04	200	17	5.46	7.0	0.0	11.2	85	0.3	3.5	
1445	5.04	200	17	5.58	7.0	0.0	13.0	86	0.3	3.5	
1450	5.04	200	17	5.62	7.0	0.0	11.6	88	0.3	3.6	
1455	5.03	200	17	5.69	7.0	0.0	9.1	89	0.3	3.6	
1500	5.03	200	17	5.77	7.0	0.0	8.5	90	0.3	3.6	
1505	5.03	200	17	5.84	7.0	0.0	1.3	89	0.3	3.7	
1510	5.03	200	18	5.87	7.0	0.0	0.0	89	0.3	3.7	
1515	5.03	200	18	5.90	6.9	0.0	0.0	89	0.3	3.7	
1520	5.03	200	18	5.91	6.9	0.0	0.0	90	0.3	3.7	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 0.4 mg/L; Sulfide 0.0 mg/L

Com=Compuchem
F = Field

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Hard to Bail
FIELD CONDITIONS – Misting / Soaking

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/6/02

MONITORING WELL ID: PZ-9D & Duplicate | ACTIVITY TIME: START 1345 END ~~1445~~ 1710 KOP 5/6/02 | BOTTLE TIME: 1515

LABEL SAMPLE ID: PZ9D02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

INITIAL DTW: 5.6 ft (TOR) | FINAL DTW: 5.82 ft (TOR) | DRAWDOWN VOL .03 mL 5/14/02 INITIAL - FINAL X 0.16 gal/ft: ~~0.93~~ gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.37 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: NA ~~0.0~~ ppmv 5/14/

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (ms/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1440	5.7	150	19.52	6.26	7.23	0.93	8.33	-33	–	–	
1445		1	19.91	6.21	7.23	0.78	8.97	-37	–	–	
1450	5.8	1	19.39	6.11	7.25	0.72	6.62	-40	–	–	
1455		1	19.39	6.07	7.26	0.71	4.66	-44	–	–	
1500		1	20.21	5.99	7.23	0.86	3.85	-35	–	–	
1505	5.82	1	19.33	5.98	7.19	1.00	6.71	-5	–	–	
1510		1	18.96	5.99	7.12	0.96	5.10	-5	–	–	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.00 | Sulfide 0.00

SIGNATURE: Karen C. Vesey

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/23/02

MONITORING WELL ID: PZ-TF-01B | ACTIVITY TIME: START 1350 END 1520 | BOTTLE TIME: 1450

LABEL SAMPLE ID: PZTF01B02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [✓]

INITIAL DTW: Top of Riser ft (TOR)

FINAL DTW: Top of Riser ft (TOR)

DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: Ø gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~.03~~ 6.0 mL 5/14/02

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: Ø

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: — ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1405 ~~1450~~	ToR	350	12.25	47.2	6.48	4.98	278	-114	—	—	—
1415	—	—	11.99	48.2	6.49	1.96	~~-117~~ 79.3	-117	—	—	—
1420	—	—	11.81	49.1	6.49	.73	44.4	-118	—	—	—
1425	—	—	11.77	50.0	6.50	0.00	20.6	-118	—	—	—
1430	—	—	11.76	50.3	6.49	0.00	16.0	-118			
1435	—	—	11.74	50.6	6.49	0.00	14.3	-115	—	—	—

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 1.2 mg/L; Sulfide 0.00 mg/L

Com=Compuchem
F = Field

SIGNATURE: Karen C. Kinney

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/24/02

MONITORING WELL ID: PZ-TF-02A | ACTIVITY TIME: START 1315 END 1735 | BOTTLE TIME: 1545

LABEL SAMPLE ID: PZTF02A02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: TOR ft (TOR) | FINAL DTW: TOR ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~2.34~~ 1.56 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: — ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1435	Top of Riser	100ml	17.0	31.7 *	6.73	1.0	75.7	-194	—	—	water is flowing over well
1440	—	—	17.1	31.7 *	6.72	0.9	71.4	-216	—	—	
1445	—	100ml	17.3	31.5 *	6.71	0.7	66.1	-234	—	—	
1450	—	—	17.3	31.3 *	6.72	0.8	73.4	-242	—	—	
1455	—	—	17.5	31.0 *	6.72	0.7	69.0	-248	—	—	
1500	—		17.5	31.1 *	6.71	0.8	62.6	-253	—	—	
1510	—	85ml.	16.9	31.0 *	6.68	0.8	39.5	-274	—	—	
1515	—	—	16.7	30.8 *	6.68	0.7	26.2	-287	—	—	
1520	—	—	16.7	30.8 *	6.67	0.7	23.1	-295	—	—	
1525	—	—	16.6	30.7 *	6.67	0.6	~~16.6~~ 25.2 KB 4/24/02	-292	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.3 mg/L; Sulfide 5.0 mg/L

SIGNATURE: Karen C. Tierney

* Disregard Conductivity readings Sensor broken

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-24-02

MONITORING WELL ID: PZ-TF-02B | ACTIVITY TIME: START 1430 END 1650 | BOTTLE TIME: 1545

LABEL SAMPLE ID: PZ-TF-02B02 | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW (OR) OVER RISER ft (TOR) | FINAL DTW ~~OVER RISER~~ ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: N/A gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 7.0 gal. | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: NA ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm) * (COND. METER 20)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1445	OR	200	18	45	6.2	5.1	26	-85	2.9	27	
1450	OR	200	18	45	6.2	3.8	25	-88	2.9	27	
1455	OR	250	18	45	6.2	3.1	21	-93	2.9	27	
1500	OR	250	18	45	6.2	2.8	18	-94	2.9	27	
1505	OR	250	19	45	6.2	2.0	12	-96	2.9	27	
1510	OR	225	19	45	6.2	1.5	15	-97	2.9	27	
1515	OR	200	18	45	6.2	0.9	9.8	-97	2.9	27	
1520	OR	200	18	45	6.2	0.2	11	-97	2.9	27	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [✓]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [✓]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[✓]
Com [✓]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[✓]
Com [✓]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[✓]
Com [✓]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[✓]
Com [✓]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[✓]
Com [✓]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[✓]
Com [✓]	COD	USEPA Method 410.1		HCl	2-40 mL	[✓]
Com [✓]	Chloride	USEPA Method 300.0		None	1-250 ml	[✓]
F [✓]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[✓]

plus Dups MS/MSDs

NOTES: Field Chemistry Results (ppm): Fe^{+2} 4.6 mg/L; Sulfide 0.1 mg/L (Dropped 1 TARGET)

Com=Compuchem
F = Field

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-01-2002

MONITORING WELL ID: PZ-TF-03A | ACTIVITY TIME: START 0900 END 1020 | BOTTLE TIME: 0945

LABEL SAMPLE ID: PZTF03A02XX | ASSOCIATED TRIP BLANK: TBK07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 8.75 (PRESET) ft (TOR) | FINAL DTW: NA ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: NA gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~NA~~ 1 1/2 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: NA

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: NA ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0925	NA	75	15	23.5	6.8	0.0	88	-52	1.4	15	
0930	NA	75	15	23.5	6.8	0.0	81	-69	1.4	15	
0935	NA	75	15	23.6	6.8	0.0	76	-71	1.4	15	
0940	NA	75	15	23.6	6.8	0.0	68	-73	1.4	15	Pt. ~~Urge~~ L ME to SAMPLE - Fishtony PDF recovery

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 10.0 mg/L; Sulfide 0.0 mg/L

Com=Compuchem
F = Field

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-24-02

MONITORING WELL ID: PZ-TF-03B (BM) | ACTIVITY TIME: START 1450 END 1645 | BOTTLE TIME: 1555

LABEL SAMPLE ID: PZTF0302XX | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] | PERISTALTIC PUMP: [✓]

INITIAL DTW: — ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 0.78 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: N/A ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1535	—	0.050	17.59	17.8	6.95	2.52	10.95	-55	—	—	WATER FLOW
1540	—	0.050	17.40	17.8	6.93	1.61	9.41	-53	—	—	OUT OF PIEZO
1545	—	0.050	17.22	17.9	6.92	1.16	7.89	-53	—	—	OVER RISER
1550	—	0.050	17.02	17.9	6.90	0.81	6.45	-52	—	—	~ 2 GALLONS/MIN
1555	—	0.050	16.96	17.9	6.89	0.55	8.90	-52	—	—	START PURGING
											@ 1455
											TUBING FROM
											PIEZO TO
											DIKE > 500'

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [✓]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [✓]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[✓]
Com [✓]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[✓]
Com [✓]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[✓]
Com [✓]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[✓]
Com [✓]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[✓]
Com [✓]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[✓]
Com [✓]	COD	USEPA Method 410.1		HCl	2-40 mL	[✓]
Com [✓]	Chloride	USEPA Method 300.0		None	1-250 ml	[✓]
F [✓]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[✓]

NOTES: Field Chemistry Results (ppm): Fe^{+2} 4.0 mg/L; Sulfide 0.0 mg/L

Com=Compuchem
F = Field

SIGNATURE: Bradley B Cl

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-23-02

MONITORING WELL ID: P2-TF-04B | ACTIVITY TIME: START 1330 END 1530 | BOTTLE TIME: 1420

LABEL SAMPLE ID: P2TF04B02XX | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [✓]

INITIAL DTW: ABOVE RISER ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.5 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: N/A ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1355	—	0.325	12.9	13.6	6.51	1.1	3.43	56			
1405	—	0.325	12.9	13.6	6.50	0.7	3.03	53			
1410	—	0.325	12.9	13.6	6.51	0.7	3.51	52			
1415	—	0.325	12.9	13.5	6.51	0.6	2.91	50			
1420	—	0.325	12.9	13.5	6.50	0.5	2.90	48			

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [✓]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [✓]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[✓]
Com [✓]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[✓]
Com [✓]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[✓]
Com [✓]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[✓]
Com [✓]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[✓]
Com [✓]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[✓]
Com [✓]	COD	USEPA Method 410.1		HCl	2-40 mL	[✓]
Com [✓]	Chloride	USEPA Method 300.0		None	1-250 ml	[✓]
F [✓]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[✓]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Brad[illegible]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-1-02

MONITORING WELL ID: PZ-TF-05A | ACTIVITY TIME: START 0920 END 1055 | BOTTLE TIME: 1000

LABEL SAMPLE ID: PZTF05A02XX | ASSOCIATED TRIP BLANK: TBK07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: — ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 0.91 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: — ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0930	—	0.100	—	—	—	—	—	—	—	—	WATER LEVEL
0940	—	0.100	16.8	32.1	6.71	1.9	62.7	-146	—	—	ABOVE MUD
0945	—	0.100	16.9	32.1	6.71	1.3	61.2	-153	—	—	LINE.
0950	—	0.100	17.2	31.9	6.70	1.0	50.3	-164	—	—	
0955	—	0.100	17.6	31.7	6.70	0.9	48.4	-176	—	—	
1000	—	0.100	17.5	31.7	6.70	0.9	34.4 *	-187 *	—	—	* TIDE CAME IN

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 1.4 mg/L; Sulfide 5.0 mg/L

SIGNATURE: Douglas B. [illegible]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/1/02

MONITORING WELL ID: PZ-TF-05B (PZ-TF-05B) | ACTIVITY TIME: START 0815 END 1015 | BOTTLE TIME: 0955

LABEL SAMPLE ID: PZTF05B02xx | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] | PERISTALTIC PUMP: [X]

INITIAL DTW: Artesian — ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.7 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: — ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0831	—	Start pumping and setting rate.									
0836	Initial	125	14.1	17.5	7.9	3.6	430	-19	1.0	11	Initial readings
0841	—	150	14.2	16.3	8.2	2.1	150	-39	0.9	10	(9/2)
0850	—		14.5	15.5	7.9	1.3	39	-53	0.9	10	
0855	—		14.8	15.4	8.1	1.1	20	-58	0.9	10	
0900	—		15.1	15.3	7.9	1.1	7.5	-59	0.9	10	
0905	—		15.5	15.3	8.1	1.0	9.3	-63	0.9	9	
0910	—		15.4	15.3	8.1	1.0	6.9	-66	0.9	9	
0915	—		15.5	15.3	8.1	1.0	6.8	-66	0.9	9	

Estimate 1 GPM flowing from top of PZ riser

Duplicate sample collected at this location

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X] #46
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X] Duplicate (#125)
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 4.5 ppm; Sulfide 0.1 ppm

SIGNATURE: Jerry Randolph

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/23/02

MONITORING WELL ID: PZTF 06B | ACTIVITY TIME: START 1630 END 1800 | BOTTLE TIME: 1710

LABEL SAMPLE ID: PZTF06B02 | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: Top of Riser ft (TOR) | FINAL DTW: Top of Riser ft (TOR)

DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.5

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: ~~0.00~~ NA ppmv

PURGE DATA

TIME	DTW (ft) Top Kaj 4/22/02	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1635	~~500~~	500	11.46	53.5	6.33	5.43	8.12	-165	—	—	—
1640	—	—	11.52	53.0	6.30	1.99	4.13	-109	—	—	—
1645	—	—	11.79	52.7	6.30	0.55	3.19	-112	—	—	—
1650	—	—	11.81	52.2	6.30	0.00	5.58	-114	—	—	—
1655	—	—	11.84	51.3	6.31	0.00	20.8	-116	—	—	—
1700	—	—	11.71	50.8	6.31	0.00	33.3	-116	—	—	—
1705	-	—	11.60	50.5	6.31	0.00	41.9	-115	—	—	—

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 5.3 mg/L; Sulfide 0.0

Com=Compuchem
F = Field

SIGNATURE: Karen C. Kersey

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-01-02

MONITORING WELL ID: PZ-TF-07A | ACTIVITY TIME: START 0800 END 0910 | BOTTLE TIME: 0840

LABEL SAMPLE ID: PZTF07A2XX | ASSOCIATED TRIP BLANK: TBK07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: ~~01~~ TOR ft (TOR) | FINAL DTW: NA ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: NA gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~NA~~ 3.0 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: NA

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: NA ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0810	NA	150	13	37.4	6.7	2.3	45.1	2.5	2.4	23	
0815	NA	150	13	37.4	6.7	2.2	38.2	22	2.4	23	
0820	NA	150	13	37.3	6.7	2.0	36.7	18	2.4	23	
0825	NA	150	13	37.0	6.7	1.8	34.5	10	2.3	23	
0830	NA	150	14	36.8	6.7	1.5	33.1	-0.6	2.2	22	
0835	NA	150	14	34.1	6.7	1.0	34.7	-12	2.1	21	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [✓]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [✓]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[✓]
Com [✓]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[✓]
Com [✓]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[✓]
Com [✓]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[✓]
Com [✓]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[✓]
Com [✓]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[✓]
Com [✓]	COD	USEPA Method 410.1		HCl	2-40 mL	[✓]
Com [✓]	Chloride	USEPA Method 300.0		None	1-250 ml	[✓]
F [✓]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[✓]

NOTES: Field Chemistry Results (ppm): Fe^{+2} 2.4 mg/L; Sulfide 2.0 mg/L

Com=Compuchem
F = Field

SIGNATURE: [signature]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-30-02

MONITORING WELL ID: PZ-TF-07B | ACTIVITY TIME: START 1000 END 1115 | BOTTLE TIME: 1040

LABEL SAMPLE ID: PZTF07B02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: — ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.82 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: N/A ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1005	—	0.200	—	—	—	—	—	—	—	—	WATER PLUMME
1020	—	0.200	18.6	14.4	6.96	1.1	254	-119	—	—	OVER RISER
1025	—	0.200	18.4	14.6	6.96	1.0	175	-119	—	—	- 1 GALLON
1030	—	0.200	18.9	14.7	6.95	0.9	191	-119	—	—	TIDE COMING
1035	—	0.200	18.8	14.8	6.95	0.9	187	-118	—	—	IN
1040	—	0.200	19.0	14.8	6.94	0.8	208	-119	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	☒
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	☒
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	☒
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	☒
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	☒
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	☒
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	☒
Com	COD	USEPA Method 410.1		HCl	2-40 mL	☒
Com	Chloride	USEPA Method 300.0		None	1-250 ml	☒
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	☒

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 7.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Bradley B. [illegible]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/30/02

MONITORING WELL ID: PZ-~~SA~~TF-08A | ACTIVITY TIME: START 0910 END 1100 | BOTTLE TIME: NA

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: ft (TOR) | FINAL DTW: ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME:

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0923	—	Start pump									
0940	Finally got water moving to flow cell.										
0951	Purged ≈ 2 liter - appear to have dewatered well to intake going to shut down										
	for a couple minutes and restart at a very slow rate.										
0955	Restart pump.										
	Not able to get a sample from this piezometer										

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	
Com	COD	USEPA Method 410.1		HCl	2-40 mL	
Com	Chloride	USEPA Method 300.0		None	1-250 ml	
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	

NOTES: Field Chemistry Results (ppm): Fe^{+2} ____ Sulfide ____

Com=Compuchem
F = Field

SIGNATURE: Jerry Ramiff

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-30-02

MONITORING WELL ID: PZ-TF-08B | ACTIVITY TIME: START 0915 END 1040 | BOTTLE TIME: 1015

LABEL SAMPLE ID: PZTF08B02XX | ASSOCIATED TRIP BLANK: TBK06

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: OVER THE TOP OF RISER ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.17 5/14/02 MHL | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0935	OR	90	14	22.3	6.8	0.3	705	200	1.3	14	
0940	OR	90	14	22.5	6.8	0.1	466	195	1.3	14	
0945	OR	90	14	22.6	6.8	0.0	328	193	1.4	14	
0950	OR	90	14	22.6	6.8	0.0	264	190	1.4	14	
0955	OR	90	14	22.7	6.8	0.0	181	187	1.4	14	
1000	OR	90	14	22.9	6.8	0.0	132	183	1.4	14	
1005	OR	90	14	23.1	6.8	0.0	119	179	1.4	14	TIDE coming in
1010	OR	90	14	23.2	6.8	0.0	107	174	1.4	14	Must sample.

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.1 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Athens

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-23-02

MONITORING WELL ID: PZ-TF-10B | ACTIVITY TIME: START 1600 END 1700 | BOTTLE TIME: 1650

LABEL SAMPLE ID: PZTF10B02XX | ASSOCIATED TRIP BLANK: TBK02

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: — ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.2 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: NA ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1620	—	0.150	12.6	18.1	6.60	1.1	75	-26	—	—	START PUMP
1625	—	0.150	12.7	19.1	6.61	0.9	75	-30	—	—	AT 450 ml/min
1630	—	0.150	12.7	18.3	6.60	0.8	70	-32	—	—	CHANGE FLOW
1635	—	0.150	12.8	18.5	6.60	0.7	50	-33	—	—	IN WELL. TURN
1640	—	0.150	12.8	18.9	6.61	0.7	85	-33	—	—	DOWN TO 150
1645	—	0.150	12.8	19.5	6.62	0.6	55	-34	—	—	ml/min AFTER
1650	—	0.150	12.9	21.9	6.68	0.7	40	-40	—	—	15min. TO try
											TO REDUCE
											TURBidity.
											TURBidity
											FLUCTUATING
											DUE TO FLOW
											IN WATER.
											TIDE COMING
											IN AND WATER
											BEGINING TO
											FLOW FROM
											PIEZOMETER
											OVER RISER
											COND, ORP, PH
											CHANGING

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES

Com=Compuchem

F = Field

Field Chemistry Results (ppm): Fe^{+2} 3.1 mg/L; Sulfide 0.0 mg/L

SIGNATURE: [signature]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/30/02

MONITORING WELL ID: WC-105 | ACTIVITY TIME: START 1110 END 1315 | BOTTLE TIME: 1215

LABEL SAMPLE ID: WC10502XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 4.42 ft (TOR) | FINAL DTW: 4.40 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.2 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (g/L)	COMMENTS
1124	4.42	Start pump and set rate									
1130	4.40	230	16.5	1.14	6.7	4.4	4.7	103	0	0.7	(g/L)
1140	4.40		16.5	.530	7.0	5.0	1.3	95	0	0.34	
1145	4.40		16.5	.499	6.7	5.1	0.7	102	0	0.32	
1150	4.40		16.6	.471	6.9	4.8	0.7	103	0	0.31	Screen
1155	4.40		16.6	.458	6.9	4.6	0.7	101	0	0.30	≈ 3-13'
1200	4.40		16.6	.450	6.8	4.4	0.6	105	0	0.29	
1205	4.40		16.5	.444	6.8	4.4	0.7	107	0	0.29	
1210	4.40		16.5	.436	6.8	4.2	0.4	108	0	0.28	
1215	4.40		16.5	.431	6.9	4.2	0.5	103	0	0.28	
1220	4.40		16.5	.423	6.9	4.2	0.4	101	0	0.28	
1225	4.40		16.6	.419	6.9	4.1	0.5	99	0	0.27	
1230	4.40		16.6	.418	6.9	4.1	0.4	99	0	0.27	
1233	Started collecting sample.										

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com X	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	X
Com X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

Control #s #82 MS #119 MSD #120 VOAs only

NOTES: Field Chemistry Results (ppm): Fe^{+2} <0.1 (ND); Sulfide <0.01 (ND)

Com=Compuchem
F = Field

SIGNATURE: Jerry Rawlings

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131

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-03-2002

MONITORING WELL ID: WC-125 | ACTIVITY TIME: START 0755 END 0925 | BOTTLE TIME: 0855

LABEL SAMPLE ID: WC-125-02XX/XD | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [✓]

INITIAL DTW: 4.92 ft (TOR) | FINAL DTW: 4.95 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0048 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 5.85 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00082

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 2.8 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (ml/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0805	4.92	250	17	0.56	6.6	1.08	0.0	228	0.0	0.36	
0810	4.92	250	17	0.57	6.6	1.12	0.0	228	0.0	0.36	
0815	4.92	250	17	0.57	6.6	0.96	0.0	228	0.0	0.36	
0820	4.92	250	17	0.56	6.6	1.10	0.0	229	0.0	0.36	
0825	4.92	250	17	0.56	6.6	1.25	0.0	226	0.0	0.36	
0830	4.93	250	18	0.56	6.6	1.28	0.0	223	0.0	0.36	
0835	4.93	250	18	0.56	6.6	1.33	0.0	219	0.0	0.36	
0840	4.94	250	18	0.56	6.6	1.24	0.0	208	0.0	0.36	
0845	4.94	250	18	0.56	6.6	1.12	0.0	197	0.0	0.36	
0850	4.94	250	18	0.56	6.6	1.04	0.0	185	0.0	0.36	

175 + DUP

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED	DUPLICATES
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓	✓
Com	✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓	✓
Com	✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓	✓
Com	✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓	✓
Com	✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓	✓
Com	✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓	✓
Com	✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓	✓
Com	✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓	✓
Com	✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓	✓
F	✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.2 mg/L; Sulfide 0.0 mg/L

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HAD TO BAIL TOP OF WELL & BREAK PADLOCK W/ BOLT CUTTERS. USED 2X pipe BUCKLES

Stratford Army Engine Plant | CONSULTANT | Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-29-02

MONITORING WELL ID: WC14S | ACTIVITY TIME: START 1605 END 1720 | BOTTLE TIME: 1700

LABEL SAMPLE ID: WC14S02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.54 ft (TOR) | FINAL DTW: 4.52 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0032 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.0 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0008

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.6 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1615	4.52	200	12	0.49	6.6	0.0	6.4	120	0	0.32	ORANGE FLOCKS
1620	4.52	200	12	0.47	6.6	0.0	3.5	118	0	0.30	
1625	4.52	200	12	0.41	6.5	0.5	2.3	118	0	0.28	
1630	4.53	200	12	0.38	6.4	0.8	1.4	118	0	0.22	
1635	4.53	200	12	0.34	6.4	1.0	1.1	119	0	0.20	
1640	4.53	200	12	0.30	6.4	1.2	0.7	121	0	0.19	
1645	4.53	200	12	0.27	6.3	1.4	0.2	124	0	0.17	
1650	4.52	200	12	0.25	6.3	1.5	0.0	127	0	0.16	
1655	4.52	200	12	0.24	6.3	1.5	0.0	129	0	0.15	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES

Com=Compuchem
F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.2 mg/L | Sulfide 0.1 mg/L

SIGNATURE: A Hines

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Have to Bail; water is 5" ABOVE well cap (TOR).

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/7/02

MONITORING WELL ID: WC 18 D | ACTIVITY TIME: START 0805 END 1015 | BOTTLE TIME: 0925

LABEL SAMPLE ID: WC18D102XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

INITIAL DTW: 4.77 ft (TOR) | FINAL DTW: 4.95 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: ~~1.79~~ 0.0288 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.75 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.016

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.00 ppmv

PURGE DATA

TIME	DTW (ft) 4.90	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0840	~~4.77~~	150	14.55	18.0	6.48	0.00	3.49	100	—	—	
0845	↓	↓	14.54	18.0	6.48	0.00	4.01	98	—	—	
0850	4.95		14.54	18.1	6.48	0.00	2.68	97	—	—	
0855			14.55	18.1	6.48	0.00	3.07	95	—	—	
0900			14.56	18.0	6.49	0.00	2.52	93	—	—	
0905			14.55	18.1	6.49	0.00	2.77	91	—	—	
~~0910~~			~~14.57~~	~~18.1~~	~~6.49~~	~~0.00~~	~~2.77~~				~~5/7/02~~
0910	↓		14.57	18.0	6.49	0.15	1.91	90	—	—	
0915	4.95		14.59	18.0	6.49	0.00	1.80	88	—	—	
0920	↓	↓	14.68	18.1	6.48	1.19	1.89	86	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES Field Chemistry Results (ppm): Fe^{+2} 0.04 | Sulfide 0.00

Com=Compuchem
F = Field

SIGNATURE: Karen C. Verlenge

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/30/02

MONITORING WELL ID: WC-19DI | ACTIVITY TIME: START 1410 END 1605 | BOTTLE TIME: 1550

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 3.41 ft (TOR) | FINAL DTW: 3.48 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.01 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.1 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: .003

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 0.5 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1424	3.41	Start pump and set rate.									
1443	3.43	100	15.3	6.11	6.3	2.4	1.4	128	0.3	3.8	
1453	3.52	200	15.1	5.83	6.4	1.4	1.3	122	0.3	3.7	
1500	3.49		15.0	5.42	6.4	1.5	1.6	121	0.3	3.4	
1505	3.48		15.0	5.28	6.4	1.5	1.4	123	0.3	3.3	Screen
1510	3.48		15.0	5.17	6.4	1.6	1.2	124	0.3	3.3	≈31-41 BGS
1515	3.48		15.0	5.12	6.3	1.7	1.2	127	0.3	3.2	
1520	3.48		14.9	5.06	6.3	1.7	2.0	129	0.3	3.2	
1524	3.49		14.9	5.04	6.3	1.7	1.1	130	0.3	3.2	
1528	3.48		15.0	5.02	6.3	1.7	0.8	132	0.3	3.2	
1532	3.48		15.0	5.02	6.2	1.7	1.1	134	0.3	3.2	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com X	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	X
Com X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

NOTES: Field Chemistry Results (ppm): Fe^{+2} ND <0.1; Sulfide ND <0.1

Com=Compuchem
F = Field

SIGNATURE: Jerry Rau

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-30-01

MONITORING WELL ID: WC-19S | ACTIVITY TIME: START 1410 END 1545 | BOTTLE TIME: 1505

LABEL SAMPLE ID: | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 3.70 ft (TOR) | FINAL DTW: 3.69 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.95 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 1.6 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1440	3.70	0.250	14.9	0.205	5.91	2.4	7.31	151	—	—	
1445	3.69	0.250	14.8	0.205	5.94	2.0	4.97	154	—	—	
1450	3.70	0.250	14.6	0.207	5.96	1.9	4.79	158	—	—	
1455	3.70	0.250	14.5	0.208	5.98	1.8	4.27	162	—	—	
1500	3.69	0.250	14.6	0.210	6.00	1.7	4.00	164	—	—	
1505	3.69	0.250	14.6	0.211	6.00	1.6	4.33	165	—	—	
											Screen ≈3-13' bgs

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

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14

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ____ OF ____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-01-2002

MONITORING WELL ID: WC15 | ACTIVITY TIME: START 1215 END 1345 | BOTTLE TIME: 1305

LABEL SAMPLE ID: WC15 02 XX/XD | ASSOCIATED TRIP BLANK: TBK07

90

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 5.55 ft (TOR) | FINAL DTW: 5.40 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.024 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.5 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0069

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1225	5.52	150	16	0.39	6.9	0.0	33	15	0.0	0.2	
1230	5.52	150	16	0.38	6.9	0.0	21	13	0.0	0.2	
1235	5.51	150	16	0.37	6.9	0.0	18	11	0.0	0.2	
1240	5.51	150	16	0.36	6.9	0.0	12	8	0.0	0.2	
1245	5.50	150	16	0.34	6.9	0.0	9	4	0.0	0.2	
1250	5.50	150	16	0.33	6.9	0.0	8	-1	0.0	0.2	
1255	5.49	150	16	0.32	6.9	0.0	6	-4	0.0	0.2	
1300	5.49	150	16	0.32	6.9	0.0	5	-11	0.0	0.2	

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED	Duplicate
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓	✓
Com	✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓	✓
Com	✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓	✓
Com	✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓	✓
Com	✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓	✓
Com	✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓	✓
Com	✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓	✓
Com	✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓	✓
Com	✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓	✓
F	✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 2.0 mg/L; Sulfide 0.0 mg/L

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35'

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-03-02

MONITORING WELL ID: WC-2D | ACTIVITY TIME: START 1020 END 1140 | BOTTLE TIME: 1120

LABEL SAMPLE ID: WC2D02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: ☐ | PERISTALTIC PUMP: ✓

INITIAL DTW: 3.87 ft (TOR) | FINAL DTW: 3.91 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0064 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.16 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00154

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.7 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1040	3.89	200	16	7.00	6.5	0.0	0.0	-71	0.4	4.4	
1045	3.89	200	16	7.00	6.5	0.0	0.0	-85	0.4	4.4	
1050	3.90	200	16	7.01	6.5	0.0	0.0	-104	0.4	4.4	
1055	3.90	200	16	7.01	6.5	0.0	0.0	-109	0.4	4.4	
1100	3.90	200	16	6.98	6.5	0.0	0.3	-116	0.4	4.4	
1105	3.90	200	16	6.96	6.5	0.0	0.6	-125	0.4	4.4	
1110	3.90	200	16	6.93	6.5	0.0	0.9	-139	0.4	4.3	
1115	3.90	200	16	6.91	6.5	0.0	1.0	-147	0.4	4.3	
1120	3.90	200	16	6.91	6.5	0.0	0.4	-158	0.4	4.4	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.8 mg/L; Sulfide 5.0 mg/L

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HAD to Bail to ACCESS TOR & BREAK PAD LOCK w/ Bolt cutters

WINDY CONDITIONS, but SUNSHINE

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/6/02

MONITORING WELL ID: WC-3S | ACTIVITY TIME: START 1055 END 1245 | BOTTLE TIME: 1210

LABEL SAMPLE ID: WC 3S02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

DRAWDOWN VOL: .03 mL/liter

INITIAL DTW: 4.3 ft (TOR) | FINAL DTW: 4.5 ft (TOR) | INITIAL - FINAL X 0.16 gal/ft: ~~.072~~ gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.6

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0

BLADDER PUMP SETTINGS: DISCHARGE: SEC | REFILL: SEC | PRESSURE: psi

PID AT WELLHEAD: 1.6 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1130	4.3	150	13.92	30.9	8.03	0.00	0.00	-334	—	—	
1135	4.4		13.78	30.8	8.04	0.00	0.00	-348	—	—	
1140	—		13.64	30.9	8.08	0.00	0.00	-352	—	—	
1145	4.4		13.60	30.9	8.09	0.00	0.00	-351	—	—	
1150	4.4		13.79	30.8	8.10	0.00	0.00	-351	—	—	
1155	4.5		14.00	30.8	8.09	0.00	0.00	-341	—	—	
~~1200~~											
1200	4.5		13.80	30.9	8.08	0.00	0.00	-343	—	—	
1205	—		13.67	31.0	8.06	0.00	0.00	-342	—	—	

5/6/02

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.01 mg/L; Sulfide 5.0 mg/L

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/25/02

MONITORING WELL ID: WC-45 | ACTIVITY TIME: START 1335 END 1610 | BOTTLE TIME: 1520

LABEL SAMPLE ID: WC4502XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

DRAWDOWN VOL: .04 mL 4/24/02

INITIAL DTW: 2.72 ft (TOR) | FINAL DTW: 3.00 ft (TOR) KJ 4/26/02 | INITIAL - FINAL X 0.16 gal/ft: ~~48~~ gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~4.37~~ 1.37

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 1.7 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1435	3.0	150	12.3	0.442	8.48	0.74	13.7	-18	—	—	—
1440	↓		12.3	0.442	8.77	0.81	11.8	-36	—	—	—
1445	3.0		12.2	0.416	8.79	0.83	5.88	-38	—	—	—
1450	↓		12.3	0.398	8.85	0.87	4.61	-40	—	—	—
1455	↓		12.2	0.383	8.92	1.25	1.50	-44	—	—	—
1500	3.0	↓	12.1	0.362	8.91	1.25	0.00	-49			
* 1505	↓	↓	12.0	0.353	8.90	1.48	0.00	-50	—	—	—
* 1515											

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 1.4 | Sulfide 0.1

Com=Compuchem
F = Field

SIGNATURE: Karen O. Hersey

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* Raining very hard. 1515 still purging @150mL. Last 3 Samples while take when rain was filling in well. Will need to recollect Alk. (MD) & Diss. Mn.

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-1-02

MONITORING WELL ID: WC5S | ACTIVITY TIME: START 1600 END 1755 | BOTTLE TIME: 1715

LABEL SAMPLE ID: WC5S02XX | ASSOCIATED TRIP BLANK: TBK07

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [X]

INITIAL DTW: 2.88 ft (TOR) | FINAL DTW: 2.88 ft (TOR)

DRAWDOWN VOL: INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 0.975

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC; REFILL SEC; PRESSURE psi

PID AT WELLHEAD: 15.4 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1650	2.88	0.150	13.7	1.16	6.49	1.4	4.28	-89	—	—	PRODUCT IN
1655	2.88	0.150	13.5	1.10	6.47	0.9	4.10	-92	—	—	WELL —
1700	2.88	0.150	13.4	1.10	6.47	0.8	4.12	-93	—	—	FUEL OIL
1705	2.88	0.150	13.3	1.12	6.48	0.7	3.65	-95	—	—	STRONG SMELL
1710	2.88	0.150	13.2	1.13	6.48	0.8	3.78	-96	—	—	
1715	2.88	0.150	13.1	1.14	6.49	0.8	4.38	-96	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES

Com=Compuchem

F = Field

Field Chemistry Results (ppm): Fe^{+2} 3.8 mg/L; Sulfide 0.1 mg/L

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-6-02

MONITORING WELL ID: WC-9D2 | ACTIVITY TIME: START 1530 END 1710 | BOTTLE TIME: 1630

LABEL SAMPLE ID: WC9D202XX | ASSOCIATED TRIP BLANK: TBK10

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 4.51 ft (TOR) | FINAL DTW: 4.56 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.008 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.86 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0028

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1535	—		—	—	—	—	>999	—	—	—	
1555	4.55	0.200	16.5	34.8	6.92	1.6	34.3	-126	—	—	
1610	4.55	0.200	16.4	34.6	7.02	0.8	17.9	-144	—	—	
1615	4.56	0.200	16.3	34.6	7.02	0.7	17.2	-145	—	—	
1620	4.56	0.200	16.3	34.6	7.03	0.7	14.7	-145	—	—	
1625	4.56	0.200	16.3	34.6	7.03	0.6	14.9	-145	—	—	
1630	4.56	0.200	16.3	34.6	7.03	0.6	15.2	-145	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES

Com=Compuchem

F = Field

Field Chemistry Results (ppm): Fe^{+2} 6.2 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Bradley Blair

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-6-02

MONITORING WELL ID: WC9S | ACTIVITY TIME: START 1345 END 1530 | BOTTLE TIME: 1515

LABEL SAMPLE ID: WC9S02XX | ASSOCIATED TRIP BLANK: TBK10

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [✓]

INITIAL DTW: 5.44 ft (TOR) | FINAL DTW: 5.45 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0016 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.95 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0008

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1445	5.45	0.250	19.3	0.342	6.35	3.5	7.76	61	—	—	
1450	5.45	0.250	18.6	0.335	6.30	2.2	6.23	62	—	—	
1455	5.45	0.250	18.6	0.331	6.24	1.5	5.25	76	—	—	
1500	5.45	0.250	17.9	0.336	6.24	1.1	4.64	70	—	—	
1505	5.45	0.250	17.8	0.336	6.25	1.0	4.59	73	—	—	
1510	5.45	0.250	17.7	0.332	6.29	0.9	4.33	74	—	—	
1515	5.45	0.250	17.7	0.330	6.25	0.8	4.11	76	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	Manganese	SW 846 Method 6010B	Ø	HNO_3	1-500 mL plastic	✓
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Bradley Blair

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-7-02

MONITORING WELL ID: WC1-15 | ACTIVITY TIME: START 0800 END 0950 | BOTTLE TIME: 0915

LABEL SAMPLE ID: WC11502XX | ASSOCIATED TRIP BLANK: TBK11

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 5.41 ft (TOR) | FINAL DTW: 5.41 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.56 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0835	5.41	0.150	15.1	0.309	6.08	2.0	9.40	96	—	—	
0840	5.41	0.150	15.1	0.285	6.12	3.0	7.73	94	—	—	
0845	5.41	0.150	15.1	0.273	6.10	2.9	5.79	93	—	—	
0850	5.41	0.150	15.1	0.271	6.06	2.8	5.75	96	—	—	
0855	5.41	0.150	15.1	0.267	6.03	2.7	5.46	97	—	—	
0900	5.41	0.150	15.1	0.266	6.01	2.7	4.45	98	—	—	
0905	5.41	0.150	15.1	0.265	6.00	2.7	4.10	98	—	—	
0910	5.41	0.150	15.1	0.266	5.99	2.7	4.28	99	—	—	
0915	5.41	0.150	15.1	0.264	5.98	2.7	4.36	99	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.2 mg/L; Sulfide 0.0 mg/L

SIGNATURE: [signature]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-26-02

MONITORING WELL ID: WC2-1D | ACTIVITY TIME: START 0750 END 1030 | BOTTLE TIME: 0915

LABEL SAMPLE ID: WC21D02XX | ASSOCIATED TRIP BLANK: TB/C04

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [X]

INITIAL DTW: 4.45 ft (TOR) | FINAL DTW: — ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.5 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0830	4.22	0.175	—	—	—	—	—	—	—	—	QC
0840	4.13	0.175	12.2	35.4	6.85	1.7	107.2	-27	—	—	SAMPLES
0850	4.04	0.175	12.3	35.6	6.90	1.0	50.7	-61	—	—	WATER LEVEL
0855	4.01	0.175	12.3	35.5	6.91	1.0	35.8	-68	—	—	RISING - TIDE
0900	3.99	0.175	12.4	35.5	6.91	1.0	25.3	-72	—	—	COMING IN
0905	3.95	0.175	12.4	35.5	6.92	1.0	21.7	-75	—	—	START PURGE
0910	3.91	0.175	12.5	35.4	6.92	0.9	13.7	-78	—	—	AT 8:20
0915	3.88	0.175	12.5	35.5	6.93	0.9	8.96	-79	—	—	AT 175 ml/min
											WATER VERY
											TURB.D.

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 5.8 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Brady BLR

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/26/02

MONITORING WELL ID: WC2-1I | ACTIVITY TIME: START 0745 END 1030 | BOTTLE TIME: 0915

LABEL SAMPLE ID: WC21I02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

INITIAL DTW: 5.8 ft (TOR) | FINAL DTW: 3.6 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: ~~.56~~ KB 4/26/02 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~.06~~ KB 4/26/02 1.56

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.00 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0825	5.8	150	11.5	25.1	8.55	1.84	69.9	5	—	—	Tide is coming in orange flec
0830	5.45		11.2	25.4	8.74	1.18	44.0	-1	—	—	
0835	4.54		11.2	25.4	8.83	0.95	55.8	-3	—	—	
0840			11.4	25.6	8.83	0.64	88	-4	—	—	
0845	4.4		11.2	25.7	8.84	0.66	136	-5	—	—	
0850	4.35		11.4	25.6	8.87	0.62	182	-5	—	—	
0855	4.3		11.6	25.6	8.88	0.56	187	-5	—	—	
0900	4.1		11.8	25.8	8.90	0.57	338	-6	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} 4.3 mg/L; Sulfide 0.0 mg/L

Com=Compuchem
F = Field

SIGNATURE: Karen C. Hersey

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/29/02

MONITORING WELL ID: WC2 - 15 | ACTIVITY TIME: START 1230 END 1500 | BOTTLE TIME: 1440

LABEL SAMPLE ID: WC2150 2XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 3.41 ft (TOR) | FINAL DTW: 3.23 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 6.3 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE — SEC | REFILL — SEC | PRESSURE — psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1250	3.41	Start pump and set rate									Intake =
1301	3.41	.250	11.7	0.261	6.1	5.5	6.2	113	0	0.17	8-4' BGS
1310	3.41		11.6	.257	6.8	4.8	3.4	74	0	0.17	
1315	3.41		11.6	.257	7.2	4.2	2.1	40	0	0.17	
1320	3.41		11.6	.259	7.8	3.8	2.0	-1	0	0.17	
1325	3.39		11.6	.264	8.2	3.5	1.5	-26	0	0.17	
1330	3.37		11.6	.268	8.4	3.3	1.0	-38	0	0.17	
1335	3.36		11.5	.273	8.5	3.1	0.9	-45	0	0.18	
1340	3.37		11.5	.278	8.6	2.9	0.9	-50	0	0.18	
1345	3.37		11.5	.282	8.6	2.8	1.0	-54	0	0.18	
1350	3.35		11.5	.288	8.7	2.6	0.8	-59	0	0.19	
1355	3.34		11.5	.293	8.7	2.4	0.9	-61	0	0.19	
1400	3.31		11.5	.298	8.8	2.4	0.9	-62	0	0.19	
1405	3.29		11.5	.303	8.8	2.3	0.8	-65	0	0.20	
1410	3.27		11.5	.305	8.8	2.2	0.7	-67	0	0.20	
1415	3.25		11.5	.315	8.9	2.0	0.6	-70	0	0.20	
1420	3.24		11.5	.319	8.9	2.0	0.7	-71	0	0.21	
1425	3.23		11.5	.321	8.9	2.0	0.7	-74	0	0.21	

Appears to be tidal influence. as water level was rising during low flow purging.

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com X	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	X
Com X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

NOTES Field Chemistry Results (ppm): Fe^{+2} 1.0 | Sulfide 0.-0.1

Com=Compuchem
F = Field

SIGNATURE: Jerry Rawlff

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61

Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE ____ OF ____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 05-01-2002

MONITORING WELL ID: WC22D | ACTIVITY TIME: START 1610 END 1725 | BOTTLE TIME: 1700

LABEL SAMPLE ID: WC22D02XX | ASSOCIATED TRIP BLANK: TBK 07

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 5.14 ft (TOR) | FINAL DTW: 5.31' ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0272 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.0 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0093

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0.3 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1620	5.19	150	17	35.7	6.9	0.07	0	-87	2.3	22	
1625	5.20	150	17	35.7	6.9	0.05	0	-88	2.3	22	
1630	5.20	150	17	35.8	6.9	0.01	0	-89	2.3	22	
1635	5.22	150	17	35.8	6.9	0.0	0	-89	2.3	22	NEW Battery
1640	5.23	150	17	35.8	6.9	0.0	0	-89	2.3	22	
1645	5.24	150	17	35.8	6.9	0.0	0	-89	2.3	22	
1650	5.26	150	16	35.8	6.9	0.1	0	-91	2.3	22	Flow thru cell in sun - move it
1655	5.27	150	17	35.8	6.9	0.2	0	-94	2.3	22	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 7.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: [signature]

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/3/02

MONITORING WELL ID: WC2-2I | ACTIVITY TIME: START 1015 END 1215 | BOTTLE TIME: 1200

LABEL SAMPLE ID: WC22I03XY | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 4.86 ft (TOR) | FINAL DTW: 4.88 ft (TOR) | INITIAL - FINAL X 0.16 gal/ft: — gal

DRAWDOWN VOL: ~~0.02~~

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.4

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1036	4.86	Start pump and set rate.									
1042	4.87	.225	12.9	11.8	8.3	1.7	5.5	-33	0.7	7	
1045	4.87		12.9	12.2	9.0	0.9	4.0	-84	0.7	8	
1055	4.87		13.0	12.9	9.3	0.6	0.1	-108	0.7	8	
1100	4.88		13.0	13.0	9.3	0.6	0.1	-111	0.7	8	
1105	4.88		13.1	13.2	9.4	0.6	0.1	-112	0.7	8	
1110	4.88		13.1	13.4	9.4	0.6	0.1	-112	0.8	8	
1115	4.88		13.1	13.5	9.4	0.6	0.1	-111	0.8	8	
1120	4.88		13.1	13.6	9.4	0.6	0.1	-110	0.8	8	
1125	4.88		13.2	13.7	9.4	0.6	0.1	-109	0.8	8	
1129	4.88		13.2	13.7	9.4	0.6	0.1	-108	0.8	9	
1133	4.88		13.2	13.7	9.4	0.6	0.1	-107	0.8	9	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com X	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	X
Com X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

NOTES: Field Chemistry Results (ppm): Fe^{+2} 5.5 ppm; Sulfide 0-0.1 ppm

Com=Compuchem
F = Field

SIGNATURE: Jerry Ramsey

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-3-02

MONITORING WELL ID: WC2-3D | ACTIVITY TIME: START 0750 END 0950 | BOTTLE TIME: 0915

LABEL SAMPLE ID: WC23D02XX | ASSOCIATED TRIP BLANK: TBK09

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [X]

INITIAL DTW: ~~5.50~~ 5.05 (BRL) ft (TOR) | FINAL DTW: 5.17 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0192 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.86 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0067

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 2.1 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0820	5.11	0.200	15.6	20.6	6.39	5.0	30.3	96	—	—	
0825	5.11	0.200	15.6	20.4	6.36	4.9	16.8	85	—	—	
0830	5.11	0.200	15.7	20.2	6.36	4.9	13.2	81	—	—	
0835	5.11	0.200	15.7	20.0	6.37	4.7	11.1	76	—	—	
0840	5.12	0.200	15.7	19.8	6.37	4.3	9.68	74	—	—	
0845	5.13	0.200	15.7	19.8	6.37	3.9	9.48	72	—	—	
0850	5.14	0.200	15.7	19.7	6.38	3.4	8.45	70	—	—	
0900	5.14	0.200	15.7	19.7	6.39	2.7	7.59	67	—	—	
0905	5.15	0.200	15.7	19.7	6.40	2.4	9.07	66	—	—	
0910	5.17	0.200	15.8	19.7	6.40	2.2	6.76	64	—	—	
0915	5.17	0.200	15.8	19.8	6.41	2.1	6.68	63	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 2.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Bradley Blair

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-6-02

MONITORING WELL ID: WL2-3I | ACTIVITY TIME: START 1055 END 1230 | BOTTLE TIME: 1145

LABEL SAMPLE ID: WL23I02XX | ASSOCIATED TRIP BLANK: TB1K10

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 3.56 ft (TOR) | FINAL DTW: 3.72 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0256 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.755 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0146

BLADDER PUMP SETTINGS: DISCHARGE SEC; REFILL SEC; PRESSURE psi

PID AT WELLHEAD: 5.1 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1100	3.64	0.150	15.0	13.8	6.41	1.6	61.8	75	—	—	TUBE [illegible]
1120	3.67	0.150	15.0	13.8	6.44	0.8	31.1	51	—	—	[illegible]
1125	3.68	0.150	15.0	13.8	6.44	0.8	19.6	46	—	—	
1130	3.69	0.150	15.0	13.8	6.44	0.7	15.2	41	—	—	
1135	3.70	0.150	15.1	13.8	6.44	0.7	12.6	39	—	—	
1140	3.71	0.150	15.1	13.8	6.44	0.6	11.5	36	—	—	
1145	3.72	0.150	15.1	13.8	6.45	0.6	9.54	35	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 3.0 mg/L; Sulfide 0.0 mg/L

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Stratford Army Engine Plant | CONSULTANT | Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-3-02

MONITORING WELL ID: WC2-3S | ACTIVITY TIME: START 1010 END 1155 | BOTTLE TIME: 1115

LABEL SAMPLE ID: WC23S02XX | ASSOCIATED TRIP BLANK: TBK09

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [x]

INITIAL DTW: 5.13 ft (TOR) | FINAL DTW: 5.57 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.070 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.14 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.062

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1040	5.41	0.125	11.5	14.4	6.85	8.9	11.5	37	—	—	TIDE GOING
1045	5.43	0.125	11.6	14.5	6.85	8.7	10.92	26	—	—	OUT.
1050	5.46	0.125	11.7	14.5	6.82	8.4	7.04	24	—	—	
1055	5.48	0.125	11.6	14.6	6.81	8.1	6.60	19	—	—	
1100	5.50	0.125	11.7	14.6	6.80	7.8	6.96	17	—	—	
1105	5.52	0.125	11.7	14.7	6.79	7.5	5.95	17	—	—	
1110	5.55	0.125	11.6	14.8	6.79	7.4	5.40	16	—	—	
1115	5.57	0.125	11.4	14.8	6.77	7.4	5.24	16	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-29-02

MONITORING WELL ID: WC2-4E | ACTIVITY TIME: START 1215 END 1340 | BOTTLE TIME: 1305

LABEL SAMPLE ID: WC24102XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.72 ft (TOR) | FINAL DTW: 4.67 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.008 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 5.5 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00145

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.8 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1225	4.71	250	15	2.18	6.9	3.8	0.0	-21	0.1	1.4	
1230	4.71	250	15	2.19	6.9	3.6	0.0	-26	0.1	1.4	
1235	4.71	250	15	2.21	6.9	3.5	0.0	-30	0.1	1.4	
1240	4.71	250	15	2.22	6.9	3.2	10	-34	0.1	1.4	ORANGE FLAK
1245	4.71	250	15	2.24	6.9	2.9	12	-40	0.1	1.4	
1250	4.70	250	15	2.25	6.9	2.6	9	-41	0.1	1.4	
1255	4.70	250	15	2.25	6.9	2.4	7	-42	0.1	1.4	
1300	4.70	250	15	2.26	6.9	2.0	6	-44	0.1	1.4	

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 2.1 mg/L; Sulfide 0.1 mg/L

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-29-02

MONITORING WELL ID: WC2-4S | ACTIVITY TIME: START 1415 END 1510 | BOTTLE TIME: 1500

LABEL SAMPLE ID: WC24S02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: ✓

INITIAL DTW: 4.99 ft (TOR) | FINAL DTW: 5.00 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0016 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.86 gal. | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00056

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1420	4.99	250	13	0.41	6.5	1.2	0.0	66	0.0	0.27	
1425	5.00	200	13	0.39	6.5	1.0	0.0	71	0.0	0.25	
1430	5.00	200	13	0.38	6.5	0.9	0.0	75	0.0	0.25	
1435	5.00	200	13	0.39	6.5	0.9	0.0	78	0.0	0.26	
1440	5.00	200	13	0.38	6.5	1.0	0.0	81	0.0	0.25	
1445	5.00	200	13	0.37	6.5	1.1	0.0	84	0.0	0.24	
1450	5.00	200	13	0.37	6.5	1.2	0.0	85	0.0	0.24	
1455	5.00	200	13	0.36	6.5	1.2	0.0	87	0.0	0.24	

55

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES
Com=Compuchem
F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.4 mg/L
Sulfide 0.0 mg/L

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-30-02

MONITORING WELL ID: WC2-5I | ACTIVITY TIME: START 1210 END 1340 | BOTTLE TIME: 1300

LABEL SAMPLE ID: WC25102XX | ASSOCIATED TRIP BLANK: TBIC06

90 mins

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 6.87 ft (TOR) | FINAL DTW: 6.71 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0256 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.68

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0054

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.1 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (mL/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1220	6.80	200	16	24.7	6.8	0.0	1.0	7	1.5	15	
1225	6.82	200	16	24.8	6.8	0.0	0.8	4	1.5	15	
1230	6.81	200	16	25.0	6.8	0.0	0.0	-2	1.5	16	
1235	6.79	200	16	25.2	6.8	0.0	0.0	-5	1.6	16	
1240	6.78	200	16	25.4	6.8	0.0	0.0	-8	1.6	16	
1245	6.77	200	16	25.5	6.8	0.0	0.0	-11	1.6	16	
1250	6.76	200	16	25.6	6.8	0.0	0.0	-12	1.6	16	
1255	6.75	200	16	25.8	6.8	0.0	0.0	-12	1.6	16	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [✓]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [✓]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[✓]
Com [✓]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[✓]
Com [✓]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[✓]
Com [✓]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[✓]
Com [✓]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[✓]
Com [✓]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[✓]
Com [✓]	COD	USEPA Method 410.1		HCl	2-40 mL	[✓]
Com [✓]	Chloride	USEPA Method 300.0		None	1-250 ml	[✓]
F [✓]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[✓]

NOTES: Field Chemistry Results (ppm): Fe^{+2} 3.4 mg/L; Sulfide 0.1 mg/L

Com=Compuchem
F = Field

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-30-02

MONITORING WELL ID: WC2-55 | ACTIVITY TIME: START 1215 END 1430 | BOTTLE TIME: 1330

LABEL SAMPLE ID: WC25502xx | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP: X

INITIAL DTW: 7.10 ft (TOR) | FINAL DTW: 7.08 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.38 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.1 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1235	7.14	0.200	14.6	0.152	6.57	9.6	22.4	47	—	—	START PUMP
1240	7.14	0.200	14.6	0.149	6.59	9.2	40.0	59	—	—	@ 1225
1245	7.14	0.200	14.7	0.151	6.54	9.0	16.2	68	—	—	QC SAMPLES
1250	7.14	0.200	14.7	0.150	6.53	9.0	5.81	74	—	—	TAKEN
1255	7.13	0.200	14.7	0.149	6.48	8.8	3.58	80	—	—	TIDE COMING
1300	7.13	0.200	14.7	0.150	6.49	8.7	5.10	86	—	—	IN.
1305	7.12	0.200	14.7	0.152	6.48	8.6	3.96	93	—	—	
1310	7.11	0.200	14.7	0.153	6.47	8.5	4.21	97	—	—	
1315	~~*6.99~~	0.200	14.7	0.154	6.46	8.4	5.17	102	—	—	*7.09
1320	~~*6.99~~	0.200	14.7	0.155	6.46	8.4	4.92	105	—	—	*7.09
1325	7.09	0.200	14.7	0.156	6.44	8.3	4.38	110	—	—	
1330	7.08	0.200	14.5	0.157	6.39	8.3	6.14	113	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4-25-02

MONITORING WELL ID: WC2-6I | ACTIVITY TIME: START 1500 END 1600 | BOTTLE TIME: 1545

LABEL SAMPLE ID: WC26102XX | ASSOCIATED TRIP BLANK: TBK03

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 4.86 ft (TOR) | FINAL DTW: 4.95 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0144 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.12 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00462

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 0.2 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1505	4.88	200	14	15.5	6.4	0	6.4	37	0.9	10	
1510	4.89	200	14	15.7	6.4	0	6.0	41	0.9	10	
1515	4.90	200	14	15.8	6.4	0	5.7	44	0.9	10	
1520	4.91	200	14	16.0	6.4	0	5.6	46	0.9	10	
1525	4.92	200	14	16.1	6.4	0	5.4	48	0.9	10	
1530	4.93	200	14	16.2	6.4	0	5.1	50	0.9	10	
1535	4.94	200	14	16.2	6.4	0	5.1	51	0.9	10	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Field Chemistry Results (ppm): Fe^{+2} ~~0.1~~ 1 mg/L; Sulfide 0.1 mg/L

Com=Compuchem
F = Field

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/2/02

MONITORING WELL ID: WC3-1D | ACTIVITY TIME: START 0810 END 1030 | BOTTLE TIME: 0955

LABEL SAMPLE ID: WC31D02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 2.89 ft (TOR) | FINAL DTW: 3.10 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.03 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.3 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.01

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 118 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0841	2.89	Start pump and set rate									
0850	3.10	.22	13.8	26.7	8.9	1.0	9.3	-99	1.6	17 g/L	
0855	3.10		13.8	27.0	9.5	0.8	1.9	-117	1.6	17	
0905	3.10		13.8	27.2	9.1	0.7	6.1	-91	1.7	17	
0910	3.10		13.7	27.3	9.0	0.7	5.4	-83	1.7	17	
0915	3.10		13.7	27.4	8.9	0.7	5.3	-75	1.7	17	Screen 75-85 BGS
0920	3.10		13.7	27.4	8.7	0.6	4.4	-67	1.7	17	
0925	3.10		13.7	27.4	8.7	0.6	4.0	-62	1.7	17	
0930	3.10		13.6	27.5	8.6	0.6	3.5	-57	1.7	17	Intake at ≈80' BGS
0934	3.10		13.6	27.5	8.6	0.6	2.6	-54	1.7	17	
0935	3.10		13.6	27.5	8.6	0.6	3.4	-50	1.7	17	

Duplicate sample collected WC31D02XD

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X] Control # 104
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X] Duplicate
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X] Control #125
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.7; Sulfide 0 (ND)

SIGNATURE: Jerry Rawdoff

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Stratford Army Engine Plant | CONSULTANT | Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-2-02

MONITORING WELL ID: WC3-1I | ACTIVITY TIME: START 0800 END 1000 | BOTTLE TIME: 0915

LABEL SAMPLE ID: WC31I02XX | ASSOCIATED TRIP BLANK: TBK08

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 3.00 ft (TOR) | FINAL DTW: 3.71 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.1136 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 1.365

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.08

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 304 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0840	3.69	0.150	14.0	2.33	6.47	1.3	83.0	65	—	—	RAINING
0845	3.69	0.150	14.0	2.34	6.47	1.0	88.5	63	—	—	HEAVY AT
0850	3.70	0.150	14.0	2.34	6.47	0.9	114	60	—	—	TIMES
0855	3.71	0.150	14.0	2.35	6.46	0.9	91.5	57	—	—	
0900	3.72	0.150	14.0	2.36	6.46	0.8	71.7	51	—	—	
0905	3.71	0.150	13.9	2.36	6.47	0.7	82.8	49	—	—	
0910	3.71	0.150	14.0	2.37	6.47	0.7	83.1	47	—	—	
0915	3.71	0.150	14.0	2.39	6.46	0.7	81.1	46	—	—	

ANALYTICAL PARAMETERS

LAB		ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	X	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	X
Com	X	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	X
Com	X	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	X
Com	X	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	X
Com	X	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	X
Com	X	Manganese	SW 846 Method 6010B	D	HNO_3	1-500 mL plastic	X
Com	X	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	X
Com	X	COD	USEPA Method 410.1		HCl	2-40 mL	X
Com	X	Chloride	USEPA Method 300.0		None	1-250 ml	X
F	X	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	X

NOTES: Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

Com=Compuchem
F = Field

SIGNATURE: [signature]

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-2-02

MONITORING WELL ID: WC3-2D | ACTIVITY TIME: START 1230 END 1515 | BOTTLE TIME: 1445

LABEL SAMPLE ID: WC32D02XX | ASSOCIATED TRIP BLANK: TBK08

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] | PERISTALTIC PUMP: [X]

INITIAL DTW: 3.38 ft (TOR) | FINAL DTW: ~~0.0~~ 3.40 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0032 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.97 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.0006

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1325	3.41	0.225	14.2	17.8	6.50	6.7	34.3	22	–	–	
1330	3.41	0.225	14.3	16.7	6.45	6.0	30.8	32	–	–	
1335	3.41	0.225	14.3	16.1	6.45	5.5	16.2	35	–	–	
1340	3.41	0.225	14.4	15.7	6.46	4.9	13.3	39	–	–	
1345	3.41	0.225	14.4	15.4	6.46	4.3	9.74	41	–	–	
1350	3.40	0.225	14.4	15.4	6.47	4.0	10.74	41	–	–	
1355	3.40	0.225	14.4	15.2	6.47	3.5	8.43	41	–	–	
1400	3.40	0.225	14.4	15.2	6.47	3.0	6.82	42	–	–	
1405	3.40	0.225	14.5	15.1	6.47	2.7	6.28	42	–	–	ERR 3 FLASHING
1410	3.40	0.225	14.5	15.1	6.47	2.3	5.24	42	–	–	on HORIBA
1415	3.40	0.225	14.5	15.0	6.47	2.0	4.40	42	–	–	
1420	3.40	0.225	14.5	15.0	6.48	1.9	4.60	42	–	–	
1425	3.40	0.225	14.5	15.0	6.48	1.7	3.90	41	–	–	
1430	3.40	0.225	14.6	15.0	6.48	1.5	4.60	41	–	–	
1435	3.40	0.225	14.5	15.0	6.48	1.3	3.70	41	–	–	
1440	3.40	0.225	14.6	15.0	6.48	0.7	2.40	39	–	–	
1445	3.40	0.225	14.6	15.0	6.48	0.5	0.85	40	–	–	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem, F = Field

Field Chemistry Results (ppm): Fe^{+2} 1.0 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Bradley B.

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5-2-02

MONITORING WELL ID: WC3-2I | ACTIVITY TIME: START 1530 END 1705 | BOTTLE TIME: 1630

LABEL SAMPLE ID: WC32I02XX | ASSOCIATED TRIP BLANK: TBK08

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [X]

INITIAL DTW: 3.49 ft (TOR) | FINAL DTW: 3.61 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0192 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 0.975 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.019

BLADDER PUMP SETTINGS
DISCHARGE: SEC
REFILL: SEC
PRESSURE: psi

PID AT WELLHEAD: 1.3 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1610	3.60	0.150	14.7	1.28	6.45	7.2	10.0	27	—	—	ERROR 3
1615	3.61	0.150	14.7	1.28	6.45	6.8	8.4	30	—	—	FLASHING
1620	3.62	0.150	14.8	1.26	6.44	6.4	8.3	32	—	—	
1625	3.61	0.150	14.7	1.25	6.43	6.0	6.6	32	—	—	
1630	3.61	0.150	14.7	1.24	6.42	5.6	5.4	33	—	—	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[✓]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[✓]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[✓]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[✓]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[✓]
Com [X]	Manganese	SW 846 Method 6010B		HNO_3	1-500 mL plastic	[✓]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[✓]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[✓]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[✓]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[✓]

NOTES
Com=Compuchem
F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.8 mg/L; Sulfide 0.0 mg/L

SIGNATURE: Bradley Blair

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/6/02

MONITORING WELL ID: WC5-1D | ACTIVITY TIME: START 1515 END 1700 | BOTTLE TIME: 1640

LABEL SAMPLE ID: WC51D02XQ | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] | PERISTALTIC PUMP: [X]

INITIAL DTW: 4.34 ft (TOR) | FINAL DTW: 4.57 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: .037 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 2.6 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: .01

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 1.0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1526	4.34	Start pump and set rate									
1533	4.52	.020	14.6	44.2	8.5	1.3	9.3	-58	2.8	27	
1540	4.54		14.5	44.6	8.6	0.8	9.7	-68	2.9	27	
1545	4.56		14.5	44.8	8.7	0.6	6.8	-69	2.9	27	
1550	4.56		14.5	44.9	8.7	0.6	4.0	-69	2.9	27	
1555	4.57		14.5	45.0	8.7	0.6	3.9	-69	2.9	27	
1600	4.57		14.5	45.1	8.7	0.5	4.1	-69	2.9	27	screen
1605	4.57		14.5	45.1	8.7	0.5	2.9	-68	2.9	28	≈75.85' BGS
1610	4.57		14.5	45.1	8.7	0.5	1.9	-67	2.9	28	
1615	4.57	↓	14.4	45.1	8.7	0.5	2.2	-66	2.9	28	Intake ≈80' BGS

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X] Control #34
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 6.0 ppm; Sulfide <0.0-0.1 (ND)

SIGNATURE: Jerry Rawcliffe

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 4/26/02

MONITORING WELL ID: WC5-15 | ACTIVITY TIME: START 1100 END 1240 | BOTTLE TIME: 1205

LABEL SAMPLE ID: WC5 1502XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: | PERISTALTIC PUMP:

DRAWDOWN VOL: 0 mL 5/14/02

INITIAL DTW: 2.3 ft (TOR) | FINAL DTW: 2.3 ft (TOR) | INITIAL - FINAL X 0.16 gal/ft: ~~0.32~~ gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: ~~2.33~~ 1.56 (rev 4/26/02)

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: .7 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1115	2.3	150	12.8	0.587	7.43	4.65	0.00	109	–	–	
1120			12.9	0.514	7.42	4.60	0.00	108	–	–	
1125			12.9	0.474	7.41	4.73	0.00	107	–	–	
1130			13.0	0.451	7.41	4.48	0.00	107	–	–	
1135			13.0	0.437	7.35	4.34	0.00	108	–	–	
1140			13.0	0.435	7.29	3.83	0.00	110	–	–	
1145			13.0	0.441	7.29	3.61	0.00	111	–	–	
1150			13.0	0.449	7.30	3.41	0.00	111	–	–	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES Field Chemistry Results (ppm): Fe^{+2} 0.0 mg/L; Sulfide 0.0 mg/L

Com=Compuchem
F = Field

SIGNATURE: Karen C. Kersey

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/6/02

MONITORING WELL ID: WC5-~~1D~~2I | ACTIVITY TIME: START 1130 END 1330 | BOTTLE TIME: 1315

LABEL SAMPLE ID: WC52I02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] | PERISTALTIC PUMP: [X]

INITIAL DTW: 4.40 ft (TOR) | FINAL DTW: 4.41 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: .0016 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.1 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: .0003

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1205	4.40	Start pump and set rate									
1203	4.41	180	14.7	2.22	6.5	2.0	12.9	108	0.1	1.4	
1214	4.41	225	14.7	2.26	6.5	1.6	10.7	107	0.1	1.4	
1225	4.41		14.7	2.31	6.6	1.0	11.8	97	0.1	1.5	
1230	4.41		14.7	2.33	6.6	0.8	13.1	90	0.1	1.5	
1235	4.41		14.7	2.33	6.7	0.8	11.5	87	0.1	1.5	Screen = 40'
1240	4.41		14.7	2.34	6.7	0.7	10.0	85	0.1	1.5	~~75-85' BGS~~
1245	4.41		14.8	2.35	6.7	0.7	9.3	82	0.1	1.5	30-40' BGS
1250	4.41		14.8	2.35	6.8	0.6	9.0	79	0.1	1.5	Intake out
1255	4.41		14.8	2.35	6.8	0.6	8.7	77	0.1	1.5	~~≈ 80'~~
1300	4.41		14.8	2.35	6.8	0.6	8.3	74	0.1	1.5	≈ 35'

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

Control # 35

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} <0.05 ND; Sulfide <0.1 ND

SIGNATURE: Jerry Rauschoff

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/7/02

MONITORING WELL ID: WC5-2S | ACTIVITY TIME: START 0810 END 1015 | BOTTLE TIME: 1000

LABEL SAMPLE ID: WC52S02XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [X]

INITIAL DTW: 5.57 ft (TOR) | FINAL DTW: 5.58 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: .001 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.7 | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: .0002

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
0839	5.57	Start pump and set rate									
0845	5.58	.270	12.3	.260	4.4	6.8	2.6	209	0	0.17	
0850	5.58		12.2	.250	4.2	6.4	1.3	214	0	0.16	
0855	5.58		12.2	.249	4.8	6.3	1.0	190	0	0.16	
0900	5.58		12.2	.247	4.9	6.2	0.7	182	0	0.16	
0905	5.58		12.1	.245	4.9	6.2	0.7	176	0	0.16	
0910	5.58		12.1	.244	5.0	6.1	0.5	172	0	0.16	
0915	5.58		12.1	.243	5.1	6.1	0.3	168	0	0.16	Historical
0920	5.58		12.1	.242	4.8	6.1	0.3	175	0	0.16	screen depth
0925	5.58		12.2	.241	4.7	6.1	0.2	183	0	0.16	2-12' BGS
0930	5.58		12.2	.241	4.6	6.1	0.4	187	0	0.16	
0935	5.58		12.2	.240	4.5	6.0	0.3	191	0	0.16	
0940	5.58		12.2	.240	4.5	6.0	0.1	193	0	0.16	Intake
0945	5.58		12.2	.239	4.5	6.0	0.2	196	0	0.16	≈9'

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X] Control # 109
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

NOTES Field Chemistry Results (ppm): Fe^{+2} <0.01 (ND); Sulfide <0.0-0.1 (ND)

Com=Compuchem

F = Field

SIGNATURE: Jerry Ramsey

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Stratford Army Engine Plant | CONSULTANT: Harding ESE | PAGE 1 OF 1

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 5/6/02

MONITORING WELL ID: WC5-35 | ACTIVITY TIME: START 1330 END 1500 | BOTTLE TIME: 1500

LABEL SAMPLE ID: WC53502XX | ASSOCIATED TRIP BLANK:

WATER LEVEL / PUMP DATA

BLADDER PUMP: [ ] PERISTALTIC PUMP: [X]

INITIAL DTW: 4.52 ft (TOR) | FINAL DTW: 4.52 ft (TOR)

DRAWDOWN VOL: INITIAL - FINAL X 0.16 gal/ft: — gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 3.9

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: —

BLADDER PUMP SETTINGS: DISCHARGE — SEC; REFILL — SEC; PRESSURE — psi

PID AT WELLHEAD: 0 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1336	4.52	Start pump		curdset	rate.						
1343	~~4.52~~	250	13.6	.333	6.0	6.5	4.2	133	0	0.22	
1350	4.52		13.4	.401	6.0	4.4	1.1	134	0	0.26	
1355	4.52		13.4	.410	6.0	3.5	0.6	133	0	0.27	
1400	4.52		13.4	.450	6.0	3.2	0.6	132	0	0.29	Screen
1405	4.52		13.4	.473	6.0	3.0	0.6	130	0	0.31	≈ 2-12' BGS
1410	4.52		13.4	.483	6.0	2.9	0.3	129	0	0.31	
1415	4.52		13.4	.489	6.1	2.8	0.4	128	0	0.32	intake
1420	4.52		13.4	.494	6.1	2.8	0.2	127	0	0.32	≈ ~~10~~ 9-10' BGS
1425	4.52		13.5	.497	6.1	2.7	0.1	125	0	0.32	(DO)
1430	4.52		13.5	.500	6.1	2.7	0.1	124	0	0.32	
1435	4.52		13.4	.500	6.1	2.6	0.1	122	0	0.32	

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com [X]	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	[X]
Com [X]	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	[X]
Com [X]	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	[X]
Com [X]	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	[X]
Com [X]	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	[X]
Com [X]	Manganese	SW 846 Method 6010B	(Y)	HNO_3	1-500 mL plastic	[X]
Com [X]	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	[X]
Com [X]	COD	USEPA Method 410.1		HCl	2-40 mL	[X]
Com [X]	Chloride	USEPA Method 300.0		None	1-250 ml	[X]
F [X]	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	[X]

Cont'd #36

NOTES Field Chemistry Results (ppm): Fe^{+2} <0.01 (ND); Sulfide <0.1 (ND)

Com=Compuchem

F = Field

SIGNATURE: Jerry Rau

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Stratford Army Engine Plant | CONSULTANT | Harding ESE | PAGE ___ OF ___

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Stratford Army Engine Plant | JOB NUMBER: 52985-02 | DATE: 04-30-02

MONITORING WELL ID: WCG-1I | ACTIVITY TIME: START 1510 END 1630 | BOTTLE TIME: 1600

LABEL SAMPLE ID: WCG1102XX | ASSOCIATED TRIP BLANK: TBK 02

WATER LEVEL / PUMP DATA

BLADDER PUMP [ ] PERISTALTIC PUMP [✓]

INITIAL DTW: 3.81' ft (TOR) | FINAL DTW: 3.79 ft (TOR) | DRAWDOWN VOL INITIAL - FINAL X 0.16 gal/ft: 0.0032 gal

TOTAL VOLUME PURGED L/m X minutes X 0.26 gal/L: 4.16 gal | RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME: 0.00077

BLADDER PUMP SETTINGS: DISCHARGE SEC | REFILL SEC | PRESSURE psi

PID AT WELLHEAD: 0.4 ppmv

PURGE DATA

TIME	DTW (ft)	PURGE RATE (L/m)	TEMP (Deg. C)	SPECIFIC CONDUCTANCE (mS/cm)	pH	DO (mg/L)	TURBIDITY (NTU)	ORP (mV)	SAL (percent)	TDS (mg/L)	COMMENTS
1520	3.80	200	15	11.0	6.5	0.0	3.6	77	0.6	7	
1525	3.80	200	15	10.8	6.5	0.0	3.1	77	0.6	7	
1530	3.80	200	15	10.6	6.5	0.0	1.3	77	0.6	6	
1535	3.79	200	15	10.5	6.5	0.0	0.0	77	0.6	6	
1540	3.79	200	15	10.5	6.5	0.0	0.0	77	0.6	7	
1545	3.78	200	15	10.4	6.5	0.0	0.0	77	0.6	6	
1550	3.78	200	15	10.4	6.5	0.0	0.0	78	0.6	6	
1555	3.78	200	15	10.3	6.5	0.0	0.0	78	0.6	6	

80

ANALYTICAL PARAMETERS

LAB	ANALYSIS	ANALYSIS ID	FILTERED (y/n)	PRESERVATION METHOD	BOTTLE TYPE/ VOLUME REQUIRED	SAMPLE COLLECTED
Com ✓	TCLVOA (VOCs)	SW 846 Method 8260B		HCl	4-40 mL	✓
Com ✓	TOC	SW 846 Method 415.1		H_2SO_4	2-40 ml	✓
Com ✓	Nitrate/Nitrite	USEPA Method 300.0		None	1-500 mL plastic	✓
Com ✓	Sulfate	USEPA Method 300.0		None	1-1 liter plastic	✓
Com ✓	Methane/Ethane/Ethene	SW 846 Method 8015		HCL	3-40ml	✓
Com ✓	Manganese	SW 846 Method 6010B	Y	HNO_3	1-500 mL plastic	✓
Com ✓	Alkalinity	USEPA Method 310.1		None	1-500 ml plastic	✓
Com ✓	COD	USEPA Method 410.1		HCl	2-40 mL	✓
Com ✓	Chloride	USEPA Method 300.0		None	1-250 ml	✓
F ✓	Fe^{2+}, Sulfide	Hach Method		None	1-250 ml plastic	✓

NOTES: Com=Compuchem; F = Field

Field Chemistry Results (ppm): Fe^{+2} 0.5 mg/L; Sulfide 0.1 mg/L

SIGNATURE: [illegible]

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Rain + Chilly